

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: December 1, 2003, 07:30:31 ; Search time 2775 Seconds
(without alignments)
10045.850 Million cell updates/sec

Title: US-10-049-742-22
Perfect score: 1147
Sequence: 1 gccttggtcaagcagaata.....gccttcctgagtagctggat 1147

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues
Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database :
- 1: em_estba:**
 - 2: em_esthum:**
 - 3: em_estin:**
 - 4: em_estmu:**
 - 5: em_estov:**
 - 6: em_estpl:**
 - 7: em_estro:**
 - 8: em_htc:**
 - 9: gb_est1:**
 - 10: gb_est2:**
 - 11: gb_htc:**
 - 12: gb_est3:**
 - 13: gb_est4:**
 - 14: gb_est5:**
 - 15: em_estfun:**
 - 16: em_estom:**
 - 17: em_gss_hum:**
 - 18: em_gss_inv:**
 - 19: em_gss_pln:**
 - 20: em_gss_vrt:**
 - 21: em_gss_fun:**
 - 22: em_gss_mam:**
 - 23: em_gss_mus:**
 - 24: em_gss_pro:**
 - 25: em_gss_rod:**
 - 26: em_gss_phg:**
 - 27: em_gss_vrl:**
 - 28: gb_gss1:**
 - 29: gb_gss2:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	895.2	78.0	942	13	BUS38214 AGENCOURT
2	796.8	69.5	2300	11	AK017830 Mus muscu
3	796.8	69.5	2712	11	AK045445 Mus muscu
4	795.2	69.3	2639	11	AK032681 Mus muscu

5	795.2	69.3	4231	11	AK082579 Mus muscu
6	792.6	69.1	918	13	BUS38214 AGENCOURT
7	787.4	68.6	3022	11	AK045345 Mus muscu
8	786.4	68.6	4053	11	AK083878 Mus muscu
9	784.6	66.7	957	12	BM802135 AGENCOURT
10	759.4	66.2	878	12	BG763500 AGENCOURT
11	744.2	64.9	955	13	BUS38351 AGENCOURT
12	706.4	61.6	785	12	B1333110 AGENCOURT
13	692.8	60.4	904	13	B0691177 AGENCOURT
14	672.2	58.6	995	12	BM452174 AGENCOURT
15	644.2	56.2	723	10	BE619407 AGENCOURT
16	639	55.7	906	12	BG676002 AGENCOURT
17	622	54.2	1046	12	BM802913 AGENCOURT
18	605	52.7	605	13	BX090711 AGENCOURT
19	603.6	52.6	723	10	BE779250 AGENCOURT
20	601.8	52.5	940	10	BG328197 AGENCOURT
21	580	50.6	874	10	BF679562 AGENCOURT
22	573.8	50.0	927	12	BM424147 AGENCOURT
23	566	49.3	588	9	AA460131 AGENCOURT
24	565	49.3	1046	12	BQ058270 AGENCOURT
25	562.2	49.0	912	10	BG751088 AGENCOURT
26	559	48.7	737	14	CB324690 AGENCOURT
27	550	48.0	618	12	BM011379 AGENCOURT
28	548.6	47.8	805	10	BE536083 AGENCOURT
29	546.8	47.7	864	10	BG252385 AGENCOURT
30	541.4	47.2	679	9	AW146163 AGENCOURT
31	533.4	46.5	670	13	BU708368 AGENCOURT
32	530.4	46.2	667	14	BY760298 AGENCOURT
33	524.2	45.7	755	12	BG868350 AGENCOURT
34	520.4	45.4	900	10	BG298053 AGENCOURT
35	494	43.1	776	12	BG821631 AGENCOURT
36	490.4	42.8	651	10	BB465186 AGENCOURT
37	486.2	42.4	871	10	BF139916 AGENCOURT
38	478	41.7	560	9	AV602887 AGENCOURT
39	467	40.7	469	10	BG504969 AGENCOURT
40	455.2	40.6	527	12	B1002288 AGENCOURT
41	458.8	40.0	598	12	BM208252 AGENCOURT
42	436.6	38.1	448	12	B1002295 AGENCOURT
43	424.6	37.0	781	14	CB520550 AGENCOURT
44	419.4	36.6	505	10	BF819630 AGENCOURT
45	405	35.3	968	13	BUS38931 AGENCOURT

ALIGNMENTS

RESULT 1
BUS38214
LOCUS BUS38214 942 bp mRNA linear EST 13-SEP-2002
DEFINITION AGENCOURT 10186479 NIH MGC 107 Homo sapiens cDNA clone IMAGE:6568738 5', mRNA sequence.
ACCESSION BUS38214
VERSION BUS38214.1 GI:22848655
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 942)
AUTHORS NIH-MGC <http://mgi.nhl.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
Plate: LICM2754 row: 0 column: 10
High quality sequence stop: 680.

FEATURES	source
Location/Qualifiers	
1. .942	
/organism="Homo sapiens"	
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/db_xref="taxon:9606"	
/clone="IMAGE:6569738"	
/cissue_type="adenocarcinoma, cell line"	
/lab_host="DH10B (phage-resistant)"	
/clone_lib="NIH_MGC_107"	
/note="organ: breast; Vector: pOTB7; Site_1: EcoRI; Site_2: XhoI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."	
BASE COUNT	236 a 235 c 244 g 222 t 5 others
ORIGIN	
Query Match	78.0%; Score 895.2; DB 13; Length 942;
Best Local Similarity	97.4%; Pred. No. 2.7e-34;
Matches 917; Conservative 0; Mismatches 23; Indels 1; Gaps 1;	
QY	182 GCTATAGACAGCTGGCAGTGTGTTTCATCTGTGACAAAATCATATCCCGGGCTGAG 241
DB	1 GCTATAGACAGCTGGCAGTGTGTTTCATCTGTGACAAAATCATATCCCGGGCTGAG 60
QY	242 GAGGCTTCAAGGTTTTCGGACAGCTTGGGACATTGTGACCAATGCTGAAAGCGAAAG 301
DB	61 GAGGCTTCAAGGTTTTCGGACAGCTTGGGACATTGTGACCAATGCTGAAAGCGAAAG 120
QY	302 GAGTATGAGATGAACGAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAGTTCTG 361
DB	121 GAGTATGAGATGAACGAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAGTTCTG 180
QY	362 TCCAACTGCAAGATGACCTCAAGAGGCAATGAATCTATGTTAGCCGATGCCAA 421
DB	181 TCCAACTGCAAGATGACCTCAAGAGGCAATGAATCTATGTTAGCCGATGCCAA 240
QY	422 GGAACCATAGGAGTTTCAATGACCGGGAACCTAGAGTGCACATCTGCTGAG 481
DB	241 GGAACCATAGGAGTTTCAATGACCGGGAACCTAGAGTGCACATCTGCTGAG 300
QY	482 TGTAAATAGGCTGATCTCTCAGGAAGGAGACTTTTGGCGAGAGTCAAGCATGTTGGGC 541
DB	301 TGTAAATAGGCTGATCTCTCAGGAAGGAGACTTTTGGCGAGAGTCAAGCATGTTGGGC 360
QY	542 CTCAGATCACCTACTTTGCATCTGATGGAAGAGTGTATGACATCACAGATGGGCT 601
DB	361 CTCAGATCACCTACTTTGCATCTGATGGAAGAGTGTATGACATCACAGATGGGCT 420
QY	602 GGATGCCAGGTTAGGTATCTCCAGATACCCAGAGTCCCTATCACATCTCATTT 661
DB	421 GGATGCCAGGTTAGGTATCTCCAGATACCCAGAGTCCCTATCACATCTCATTT 480
QY	662 GGTTCCTCGATTCCAGGCACAGAGGGCGGAGAGGACCCAGATGCCCCCTCTGCT 721
DB	481 GGTTCCTCGATTCCAGGCACAGAGGGCGGAGAGGACCCAGATGCCCCCTCTGCT 540
QY	722 GATCTTCAGGATTTCTTGAAGTGGATCTTTCAAGTACCCCGGAGAGTCCCAATGGG 781
DB	541 GATCTTCAGGATTTCTTGAAGTGGATCTTTCAAGTACCCCGGAGAGTCCCAATGGG 600
QY	782 AACTTCTTGCAGCTCCTCAGCTGCGCTTCCAGATACCCAGAGTCCCTCTAAGCCCAAGC 841
DB	601 AACTTCTTGCAGCTCCTCAGCTGCGCTTCCAGATACCCAGAGTCCCTCTAAGCCCAAGC 660
QY	842 ACAGTACCAAGGGAAGCGCAAACTTAAAGCGCGGAAGAAAGTGAGGAGGCCCTTCAA 901
DB	661 ACAGTACCAAGGGAAGCGCAAACTTAAAGCGCGGAAGAAAGTGAGGAGGCCCTTCAA 720
QY	902 CGTTGATGCCCTTCTCTTCTCAATCAATGTGAGGAGTCAAAAGGGCTGTGACACA 961

Sato,K., Schonbach,C., Seiya,T., Shibata,Y., Storch,K.F., Suzuki,H., Toyooka,K., Wang,K.H., Weitz,C., Whittaker,C., Wilming,L., Wynshaw-Boris,A., Yoshida,K., Hasegawa,Y., Kawaji,H., Kotsuki,S. and Hayashizaki,Y.

TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE

Functional annotation of a full-length mouse cDNA collection
Nature 409 (6821), 685-690 (2001)
21085660
11217851

AUTHORS
The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases 1 to 2300)

TITLE
JOURNAL
REFERENCE
AUTHORS

Adachi,J., Aizawa,K., Akahira,S., Akimura,T., Arai,A., Aono,H., Arakawa,T., Bono,H., Carninci,P., Fukuda,S., Furumoto,Y., Furuno,M., Hanagaki,T., Hara,A., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hori,F., Iotani,K., Ishii,Y., Itoh,M., Izawa,M., Kasukawa,T., Kato,H., Kawai,J., Kojima,Y., Konno,H., Kouda,M., Koya,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Nishi,K., Nomura,K., Numazaki,R., Ohno,M., Okazaki,Y., Okido,T., Owa,C., Saito,H., Saito,R., Sakai,C., Sakai,K., Sano,H., Sasaki,D., Shibata,K., Shibata,Y., Shinagawa,A., Shiraki,T., Sogabe,Y., Suzuki,H., Tagami,M., Tagawa,A., Takahashi,F., Tanaka,T., Tejima,Y., Toya,T., Yamamura,T., Yasunishi,A., Yoshida,K., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.

TITLE
JOURNAL

Direct Submission
Submitted (10-JUL-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:genome-res@gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)

COMMENT

Please visit our web site (<http://genome.gsc.riken.go.jp/>) for further details.

cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer [5'-GAGAGAGAGAGATCCAGAGCTCTTTTCTTTTCTTN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5'-GAGAGAGATTCGAGTTAAATTAATCCCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI. Host: DH10B.

FEATURES

Location/Qualifiers	source
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/mol_type="mRNA"	
/strain="C57BL/6J"	
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/db_xref="MGI:1907484"	
/db_xref="caxon:10090"	
/clone="5730551F12"	
/tissue type="whole body"	
/clone.lib="RIKEN full-length enriched mouse cDNA library"	
/dev_stage="8 days embryo"	
97..2208	

CDS

/note="unnamed protein product; DOPAMINE RECEPTOR INTERACTING PROTEIN homolog [Rattus norvegicus] (SPR|Q925G7, evidence: FASTA, 92.7%ID, 100%length, match=2109)
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/protein_id="BAB30962.1"
/db_xref="GI:12857284"
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DQELSENETGYQEDGSPFLISPSACNCGSGYPEGTYSEGGDSSSLCHCTSP
ALGDEELEEEYDDDEELKFDSPFSVSSKKPLSRKQRLFLIEDVSDSRGEPKA
PGRHLARKSQTDKRGGLGWBEELCOLGQGFWMLELLVGLVEYVETVCGHLLYA
CRKLKGLDLFRVWVGWARRLGGWARMFQFSQSFVVGGLLIRIVVGAFLLL
ALALFLGCLQGLWRFVSLGNLRWDKTAWLFSMLGSPALHCLTLKLDXSRPMQOLV
RLIQWQELPKVQRTKKQNAPVSNVGRYCPSEVETRLTLMAGVPEDELAPFVILG
VEATSDIELKAYRQLAVMHPDKNHHPRAEEAFKILRAADIVSNPERRKEYNKR
MAENLSRSVNEFLSKLQDDLEAMTWMSRCQKRRFEMDRPEKPYCAECNRL
HPAEEGDFWABSSMLGLKITYPALMDGVYDITWAGCORVGISPTDHRVPVYHISFGS
RVPGTSGRQATPEPPADLOFLSRIIFQVPPGPMNSGNFFAAPHGPGTGTSTSRNS
SVPGKEAKPKRRKVRPQR"

BASE COUNT	557 a	560 c	675 g	508 t
ORIGIN				
Query Match	69.5%	Score 796.8	DB 11	Length 2300
Best Local Similarity	89.5%	Pred. No. 5.8e-30		
Mismatches 982	Conservative 0	Mismatches 97	Indels 7	Gaps 2
Qy	1	GCCTTGGGTCAAGCAGATAATTTAATAGCAGGGGAATGCACCTGTAGCTAGTGGGGCGCTA	60	
Db	1302	GCCTTGGGTCAAAACAGAGGACTAAGAAACAGGGCAATGCACCTGTAGCTAGCGGGCGATA	1361	
Qy	61	CTGCCAGCTGAGAGGAAGTGGCTCGACTCTTGACCATGGCTGGGTTCTCTGAGGATGA	120	
Db	1362	CTGCCAGCTGAGAGGAAGTGCACCGACTCTTGACCATGGCTGGGTTCTCTGAGGATGA	1421	
Qy	121	GCTAAACCTTTCCTATGTACTGGGGGTTTCAGCCACAGCATCAGATGTTGAACTGAAGAA	180	
Db	1422	ACTAAACCTTTCCTATGTCTGGGGGTTGAAGCTACAGCATCGACACTGAACTAAAGAA	1481	
Qy	181	GCCCTATAGACAGCTGGCAGTGGTTCATCCTGACAAAAATCATCATCCCGGGCTGA	240	
Db	1482	GCCCTATAGGAGCTAGCAGTAATGGTCCATCCTGATAAAATCACCATCCCGGGCTGA	1541	
Qy	241	GGAGGCTTCAAGGTTTTCGAGCAGCTTGGGACATTTGTCAGCAATGCTGAAAAGCGCAA	300	
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Qy	301	GGAGTATGAGATGAAACGAATGGCAGAGATGAGCTGAGCCGGTCAGTAAATGAGTTTCT	360	
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Qy	361	GTCCAAGCTGCAAGTACCTCAAGAGGCATGAATGATGATGTGTAGCGGATGCCA	420	
Db	1662	GTCCAAGCTGCAAGTACCTCAAGAGGCATGAATGATGATGTGTAGCGGATGCCA	1721	
Qy	421	AGGAAAGCATAGGAGTTTGAATCGACCGGAACTTAAGAGTGCACAGATCTGTGCTGA	480	
Db	1722	AGGAAAGCATAGGAGTTTGAATCGACCGGAACTTAAGAGTGCACAGATCTGTGCTGA	1781	
Qy	481	GTGTAATAGGCTGCATCTCTGCTGAGAAAGGAGACTTTTGGGCAGAGTCAAGCATGTGGG	540	
Db	1782	GTGTAACAGGCTGCATCTCTGCTGAGAAAGGAGACTTTTGGGCAGAGTCCAGCATGTGGG	1841	
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Qy	601	TGGATGCCAGCGTGTAGTATCTCCCGAGATACCCACAGAGTCCCTTATCATCTCATTT	660	
Db	1902	TGGATGCCAGCGTGTGGGTATCTCCCGAGATACCCACAGAGTCCCTTATCATCTCATTT	1961	
Qy	661	TGGTTCTCGGATTCAGGACCCAGAGGGCGGAGAGACCCACCCAGAGTCCCTCTCTGC	720	
Db	1962	TGGTTCTCGGATTCAGGACCCAGGACCCAGTGGCGCGGAGAGGGCCACTCCAGAGTCCCTCTCTGC	2021	
Qy	721	TGATCTTCAGGATTTCTTGTAGTCGGATCTTTCACTACCCAGGCGAGATGCCCAATGG	780	
Db	2022	TGACTGCGAGATTTCTTGTAGCGGATCTTTCACTACCCAGGCGGATGCCCAATGG	2081	
Qy	781	GAACTTCTTGAGCTCCTCAGCTGCGCTGGAGCCGCTGCGCTCTTAAGCCCAACAG	840	

BASE COUNT	664 a	663 c	778 g	607 t
ORIGIN	MAENELSRVNEFLSKLQDDLLKEAMNTMCSRQGHRRREMPDREPKSARYCAECNRN HPAEGDFWAESSMLGKHITFYFALMDGKVYDITEMAGCORVGI SPOTHRVPYHISFGS RVPGTSQRATPESPADLQDFLSRIFQVPPGPMNGNPFAAHPGPGTGTSTRPNS SVPGKEAKPKRKKVRPQR"			
Query Match	69.5%; Score 796.8; DB 11; Length 2712;			
Best Local Similarity	89.5%; Pred. No. 5.2e-30;			
Matches	882; Conservative 0; Mismatches 97; Indels 7; Gaps 2;			
QY	1	GCCTTGGGTCAAGCAGAGAAATTAATAGGCAGGGGAAATGCACCTGTAGCTAGTGGGCGCTA	60	
Db	1382	GCCTGGGTCAAAACAGAGAGACTAAGAAACAGGGCAATGCACCTGTAGCTAGCGGGCGATA	1441	
QY	61	CTGCAGGCTCAAGCAGGAAGTGGCTCGACTCTTCACCATGGCTGGGCTTCTCAGAGATGA	120	
Db	1442	CTGCAGGCTGAAGAGAGAGTGACCCGACCTCTGACCATGGCTGGGTTCTGAAGATGA	1501	
QY	121	GCTAAACCCCTTTCCATGTACTGGGGGTGAGGCCACAGCATCAGATGTTGAACCTGAAGAA	180	
Db	1502	ACTAAACCCCTTTTCATGTGTGGGGTTGAAGCTACAGCATCCGACACTGAACCTAAGAA	1561	
QY	181	GGCCTATAGACAGCTGGCAGTGATGGTTTCATCTCTGACAAAATCATCATCCCGGGCTGA	240	
Db	1562	GGCCTATAGCAGCTAGCAGTAATGGTCCATCTCTGATAAAAATCACCATCCCGGGCTGA	1621	
QY	241	GGAGCCCTTCAAGGTTTTCGAGCAGAGCTTGGGACATTGTGACCAATCCTCGAAAGCGCAA	300	
Db	1622	GGAGCCCTTCAAAATTTTTCGGGCGAGCTTGGGACATTGTGACCAACCCAGAGAGCGGAA	1681	
QY	301	GGAGTATGAGATGAACCGAATGGCAGAGAAATGAGCTGAGCGGGTCAGTAAATCAGATTTCT	360	
Db	1682	GGAATATGAGATGAACCGATGGCAGAGAAATGAGCTCAGCGGGTCAGTAAATCAGATTTCT	1741	
QY	361	GTCCAAAGCTGCAAGATGACCTCAAGGAGGCAATGAATACTATGATGTGAGCCGATGCCA	420	
Db	1742	GTCCAAACTACAAATGACCTCAAGGAGGCAATGAACACGATGATGTGACGAGATGCCA	1801	
QY	421	AGGAAAGCATAGGAGGTTTGAATTGGACCGGAACTTAAGAGTSCCAGATACTGTGCTGA	480	
Db	1802	AGGAAAGCATAGGAGGTTTGAATTGGACCGGAACTTAAGAGTSCCAGATACTGTGCTGA	1861	
QY	481	GTGTAATAGGCTGCATCTGCTGAGGAGAGAGACTTTTGGCGAGAGTCAAGCATGTTGGG	540	
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QY	541	CCTCAAGATCACCTACTTTTGCACTGTGATGGAAGGTGTATGACATCACAGATGGGC	600	
Db	1922	CCTCAAGATCACCTACTTTTGCGCTGTGATGGAAGGTGTATGACATCACAGATGGGC	1981	
QY	601	TGGATGCCAGGTGTAGGTATCTCCAGATACCCAGAGTCCCTTATCACATCTCATT	660	
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QY	661	TGGTTCTCGGATTCACGAGCACAGAGGGCGGAGAGCCACCCAGATGCCCTCTCTGC	720	
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QY	721	TGATCTTTCAGATTTCTTGATGCGATTCCTTCAAGTACCCCCAGGCGAGATGCCAATGG	780	
Db	2102	TGACCTGCAGGATTTCTTTGAGCGCGATCTTTCAAGTACCTCCGCGGCGGATGTCCAATGG	2161	
QY	781	GAACTCTTTTCAGCTCCTCAGCTCGCCCTGGAGCGCTGAGACCTCTTAAGCCCAACAG	840	
Db	2162	GAACTCTTTTGGCGCACCTCACCTCGCCCTGGGACCACTTCGACCTCTTAGGCCCAACAG	2221	
QY	841	CACAGTACCCAGGGAAGCCAACTTAAGCGCGGGAAGAAAGTAGTAGGAGGCCCTTCCA	900	
Db	2222	TTCAGTACCCAGGGAAGCCAACTTAACGGGGAAGAAAGTAGGCGGCGCCCTTTCA	2281	
QY	901	ACGTTGATGCCCTTTCTCT---TTCCTCAAAATCAATGTTCAGGAGTCAAAAGGGCTGT--	955	

Db	2282	ACGATGACACCCCTTCTCTTCTCTCAAAATCAATGTGACGGAGTCAAAAGGGCTGTGT	2344
Qy	956	--AGCACAGGATGGAGTTTGATTAT	979
Db	2342	ACAGCACAGGATGGAGTTTGATTAT	2367
RESULT 4			
LOCUS	AK032681	2639 bp	linear HTC 05-DEC-2002
DEFINITION	Mus musculus 10 days neonate cerebellum cDNA, RKEN full-length enriched library, clone:6530416L18 product:DOPAMINE RECEPTOR INTERACTING PROTEIN homolog [Rattus norvegicus], full insert sequence.		
ACCESSION	AK032681		
VERSION	AK032681.1	GI-26082970	
KEYWORDS	HTC; CAP trapper.		
SOURCE	Mus musculus (house mouse)		
ORGANISM	Mus musculus		
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
REFERENCE	1		
AUTHORS	Carninci, P. and Hayashizaki, Y.		
TITLE	High-efficiency full-length cDNA cloning		
JOURNAL	Meth. Enzymol. 303, 19-44 (1999)		
MEDLINE	99279253		
PUBMED	10349636		
REFERENCE	2		
AUTHORS	Carninci, P., Shibata, Y., Hayatsu, N., Sugihara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.		
TITLE	Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes		
JOURNAL	Genome Res. 10 (10), 1617-1630 (2000)		
MEDLINE	20499374		
PUBMED	11042159		
REFERENCE	3		
AUTHORS	Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsuami, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.		
TITLE	RKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer		
JOURNAL	Genome Res. 10 (11), 1757-1771 (2000)		
MEDLINE	20530913		
PUBMED	11076861		
REFERENCE	4		
AUTHORS	Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I., Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G., Quackenbush, J., Schriml, L. M., Staub, F., Suzuki, R., Tomita, M., Wagner, L., Washio, T., Sakai, K., Okello, T., Furuno, M., Aono, H., Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carninci, P., de Bonaldo, M. F., Brownstein, M. J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D. A., Kamiya, M., Lee, N. H., Lyons, P., Marchionni, L., Mashima, J., Mazzarelli, J., Mombauts, P., Nordone, P., Ring, B., Ringwald, M., Rodrigues, I., Sakamoto, N., Sasaki, H., Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K. F., Suzuki, H., Toyooka, K., Wang, K. H., Weitz, C., Whittaker, C., Wilming, L., Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawai, H., Kohtsuki, S. and Hayashizaki, Y.		
TITLE	Functional annotation of a full-length mouse cDNA collection		
JOURNAL	Nature 409 (6821), 685-690 (2001)		
MEDLINE	21095660		
PUBMED	11217851		
REFERENCE	5		

REFERENCE	2	Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K., Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
AUTHORS		Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
JOURNAL		Genome Res. 10 (10), 1617-1630 (2000)
MEDLINE	20499374	
PUBMED	11042159	
REFERENCE	3	Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P., Konno,H., Akiyama,J., Nishi,K., Kitsuai,T., Tashiro,H., Itoh,M., Suni,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Harada,A., Yamamoto,S., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K., Fujiwara,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsura,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y.
AUTHORS		RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer
JOURNAL		Genome Res. 10 (11), 1757-1771 (2000)
MEDLINE	20530913	
PUBMED	11076961	
REFERENCE	4	Kawai,J., Shinagawa,A., Shibata,K., Yoshino,M., Itoh,M., Ishii,Y., Arakawa,T., Hara,A., Fukunishi,Y., Konno,H., Adachi,J., Fukuda,S., Aizawa,K., Izawa,M., Nishi,K., Kiyosawa,H., Kondo,S., Yamanaka,I., Saito,T., Okazaki,Y., Gojobori,T., Bono,H., Kasukawa,T., Saito,R., Kadota,K., Matsuda,H., Ashburner,M., Batalov,S., Casavant,T., Fleischmann,W., Gaasterland,T., Gissi,C., King,B., Kochiwa,H., Kuehl,P., Lewis,S., Matsuo,Y., Nikaide,I., Pesole,C., Quackenbush,J., Schriml,L.M., Staubli,F., Suzuki,R., Tomita,M., Wagner,L., Washio,T., Sakai,K., Okido,T., Furuno,M., Aono,H., Baldarelli,R., Barsh,G., Blake,J., Brownstein,M.J., Bult,C., Carninci,P., de Bonaldo,M.F., Brownstein,M.J., Bult,C., Fletcher,C., Fujita,M., Gariboldi,M., Gustincich,S., Hill,D., Horstmann,M., Hume,D.A., Kamiya,K., Lee,N.H., Lyons,P., Marchionni,L., Mashima,J., Mazzarelli,J., Mombaerts,P., Nordone,P., Ring,B., Ringuwald,M., Rodriguez,I., Sakamoto,N., Sasaki,H., Sato,K., Schonbach,C., Seya,T., Shibata,Y., Storch,K.F., Suzuki,H., Toyooka,K., Wang,K.H., Weitz,C., Whittaker,C., Wilming,L., Wynshaw-Boris,A., Yoshida,K., Hasegawa,Y., Kawaji,H., Kotsuki,S. and Hayashizaki,Y.
AUTHORS		Functional annotation of a full-length mouse cDNA collection
JOURNAL		Nature 409 (6821), 685-690 (2001)
MEDLINE	21085660	
PUBMED	11217851	
REFERENCE	5	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
AUTHORS		Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
JOURNAL		Nature 420, 563-573 (2002)
MEDLINE		6 (bases 1 to 4231)
PUBMED		Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Bono,H., Carninci,P., Fukuda,S., Furuno,M., Hanagaki,T., Hara,A., Hashizume,W., Hayashida,K., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hirozane,T., Hori,F., Imorani,K., Ishii,Y., Itoh,M., Kagawa,I., Kasukawa,T., Kato,H., Kawai,J., Kojima,Y., Kondo,S., Konno,H., Kouda,M., Koya,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Murata,M., Nakamura,M., Nishi,K., Nomura,K., Numazaki,R., Ohno,M., Ohsato,N., Okazaki,Y., Saito,R., Saitoh,H., Sakai,C., Sakai,K., Sakazume,N., Sano,H., Sasaki,D., Shibata,K., Shinagawa,A., Shiraki,T., Sogabe,Y., Tagami,M., Tagawa,A., Takahashi,F., Takaku-Akahira,S., Takeda,Y., Tanaka,T., Tomaru,A., Toya,T., Yasunishi,A., Muramatsu,M. and Hayashizaki,Y.
AUTHORS		Direct Submission
JOURNAL		Submitted (16-APR-2002) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan [E-mail: genome-resgsc.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216]
REFERENCE		cDNA library was prepared and sequenced in Mouse Genome
COMMENT		

Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Please visit our web site for further details. URL: http://genome.gsc.riken.go.jp/ URL: http://fantom.gsc.riken.go.jp/.

Location/Qualifiers

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BASE COUNT

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ORIGIN

Query Match 69.3%; Score 795.2; DB 11; Length 4231;

Best Local Similarity 89.4%; Pred. No. 4.6e-30;

Matches 881; Conservative 0; Mismatches 98; Indels 7; Gaps 2;

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Db 1289 GCCTTGGGTCAAGCAGAGACTAAGAAACAGGGCAATGCACCTGTAGCTAGCGCGGATA 1348

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Qy 121 GCTAAACCTTTCCTATGATCTGGGGTGTAGGCCACAGCATCAGATGTTTGAATGAAGAA 180

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Db 1469 GGCCTATAGCAGCTAGCAGTAATGGTCCATCCTGATAAAAATCACCATCCCGGGCTGA 1528

Qy 241 GGAGCCCTCAAGGTTTTCGCGAGCAGCTGGGACATTGTGACCAATGCTGAAAGCGAA 300

Db 1529 GGAGCCCTCAAAATTTTCGGGGCAGCTGGGACATTGTGACCAACCCAGAGAGCGGAA 1588

Qy 301 GGAGTATGAGATGAACCAATGGCAGAGATGAGCTGAGCCGGTCAGTAAATGAGTTTCT 360

Db 1589 GGAATATGAGATGAACCAATGGCAGAGATGAGCTGAGCCGGTCAGTAAATGAGTTTCT 1648

Qy 361 GTCCAGCTGCAAGATGACCTCAAGAGGCAATGAATACTATGATGTGTAGCCGATGCCA 420

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LOCUS	3022 bp	mrna linear HTC 05-DEC-2002
DEFINITION	Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230104C23 product:DOPAMINE RECEPTOR INTERACTING PROTEIN homolog [Rattus norvegicus], full insert sequence.	
ACCESSION	AK045345	
VERSION	AK045345.1	GI:26337270
KEYWORDS	HTC; CAP trapper.	
SOURCE	Mus musculus (house mouse)	
ORGANISM	Mus musculus	
REFERENCE		
AUTHORS	Carninci, P. and Hayashizaki, Y.	
TITLE	High-efficiency full-length cDNA cloning	
JOURNAL	Meth. Enzymol. 303, 19-44 (1999)	
MEDLINE	99279253	
PUBMED	10349636	
REFERENCE		
AUTHORS	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.	
TITLE	Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes	
JOURNAL	Genome Res. 10 (10), 1617-1630 (2000)	
MEDLINE	20499374	
PUBMED	11042159	
REFERENCE		
AUTHORS	Shibata, K., Itoh, M., Aizawa, K., Nagao, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsuai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakauechi, S., Ikegami, T., Kashiwagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohata, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.	
TITLE	RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer	
JOURNAL	Genome Res. 10 (11), 1757-1771 (2000)	
MEDLINE	20530913	
PUBMED	11076861	
REFERENCE		
AUTHORS	Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I., Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T., Fleischmann, P., Gaasterland, P., Gissi, C., King, B., Kochiwa, H., Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G., Quackenbush, J., Schriml, L. M., Stauble, F., Suzuki, R., Tomita, M., Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Anon, H., Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carninci, P., de Bonaldo, M. F., Brownstein, M. J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D. A., Kamiya, M., Lee, N. H., Lyons, P., Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P., Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H., Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K. F., Suzuki, H., Toyooka, K., Wang, K. H., Weitz, C., Whitaker, C., Wilming, L., Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohsaki, S. and Hayashizaki, Y.	
TITLE	Functional annotation of a full-length mouse cDNA collection	
JOURNAL	Nature 409 (6821), 685-690 (2001)	
MEDLINE	21085660	
PUBMED	11217851	
REFERENCE		
AUTHORS		

The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.

TITLE	JOURNAL REFERENCE	AUTHORS	FEATURES	source	CDS
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs	Nature 420, 563-573 (2002) 6 (bases 1 to 3022)	Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanaoka, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, T., Kasukawa, T., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitsu, H., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shingawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagami, A., Takahashi, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.	Direct Submission Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Teurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-resgsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216)	CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. URL:http://genome.gsc.riken.go.jp/ URL:http://fantom.gsc.riken.go.jp/ Location/Qualifiers 1. .3022 /organism="Mus musculus" /mol_type="mRNA" /strain="C57BL/6J" /db_xref="FANTOM_DB:B230104C23" /db_xref="taxon:10090" /clone="B230104C23" /sex="male" /tissue_type="corpora quadrigemina" /clone_lib="RIKEN full-length enriched mouse cDNA library" /dev_stage="adult" 140. .2176	note="unnamed protein product; DOPAMINE RECEPTOR INTERACTING PROTEIN homolog [Rattus norvegicus] (SPTR Q925G7, evidence: FASTY, 92.%ID, 100%length, match=2109) putative"
TITLE	JOURNAL REFERENCE	AUTHORS	COMMENT		

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LOCUS			
DEFINITION	AK083878 4053 bp mRNA linear HTC 05-DEC-2002		
LOCUS	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length		
DEFINITION	enriched library, clone:DL30038P18 product:DOPAMINE RECEPTOR		

ACCESSION	AK083878
VERSION	AK083878.1
KEYWORDS	HTC; CAP trapper.
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
TITLE	Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
MEDLINE	Genome Res. 10 (10), 1617-1630 (2000)
PUBMED	20499374
REFERENCE	11042159
AUTHORS	Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kusunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yanamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwaki, S., Inoue, K., Togawa, Y., Izawa, M., Ohata, E., Watahiki, K., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
TITLE	RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer
MEDLINE	Genome Res. 10 (11), 1757-1771 (2000)
PUBMED	20530913
REFERENCE	11076861
AUTHORS	Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I., Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G., Quackenbush, J., Schriml, L. M., Staib, F., Suzuki, R., Tomita, M., Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H., Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carninci, P., de Bonaldo, M. F., Brownstein, M. J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D. A., Kamiya, M., Lee, N. H., Lyons, P., Marchionni, L., Mashima, J., Mazzarelli, J., Mombarts, P., Nordone, P., Ring, B., Rinchwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H., Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K. F., Suzuki, H., Toyooka, K., Wang, K. H., Weitz, C., Whitaker, C., Wilming, L., Wyshak-Boris, A., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohsaki, S., and Hayashizaki, Y.
TITLE	Functional annotation of a full-length mouse cDNA collection
MEDLINE	Nature 409 (6821), 685-690 (2001)
PUBMED	21085660
REFERENCE	11217851
AUTHORS	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
TITLE	Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
MEDLINE	Nature 420, 563-573 (2002)
PUBMED	6 (Bases 1 to 4053)
REFERENCE	Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,

ACCESSION	AK083878.1	GI:26101555
VERSION	HTC; CAP trapper.	
KEYWORDS	Mus musculus (house mouse)	
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ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	
REFERENCE	Carninci, P. and Hayashizaki, Y.	
AUTHORS	Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.	
TITLE	Normalization and subtraction of cap-trapper-selected cDNAs to	
JOURNAL	prepare full-length cDNA libraries for rapid discovery of new genes	
MEDLINE	Genome Res. 10 (10), 1617-1630 (2000)	
PUBMED	20499374	
REFERENCE	Carninci, P., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,	
AUTHORS	Konno, H., Akiyama, J., Nishi, K., Kiteunai, T., Tashiro, H., Itoh, M.,	
TITLE	Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,	
JOURNAL	Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,	
MEDLINE	Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M.,	
PUBMED	Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J.,	
REFERENCE	Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.	
AUTHORS	RIKEN integrated sequence analysis (RISA) system--384-format	
TITLE	sequencing pipeline with 384 multicapillary sequencer	
JOURNAL	Genome Res. 10 (11), 1757-1771 (2000)	
MEDLINE	20530913	
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AUTHORS	Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S.,	
TITLE	Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamakawa, I.,	
JOURNAL	Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R.,	
MEDLINE	Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T.,	
PUBMED	Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H.,	
REFERENCE	Kuehl, P., Lewis, S., Matsuo, Y., Nikaide, I., Pesole, G.,	
AUTHORS	Quackenbush, J., Schriml, L.M., Staubli, F., Suzuki, R., Tomita, M.,	
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JOURNAL	Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N.,	
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PUBMED	Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D.,	
REFERENCE	Hofmann, M., Hume, D.A., Kamiya, M., Lee, N.H., Lyons, P.,	
AUTHORS	Marchionni, L., Washima, J., Mazzarelli, J., Mombaerts, P., Nordone, P.,	
TITLE	Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H.,	
JOURNAL	Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K.F., Suzuki, H.,	
MEDLINE	Toyo-oka, K., Wang, K.H., Weitz, C., Whittaker, C., Wilming, L.,	
PUBMED	Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohtsuki, S.	
REFERENCE	and Hayashizaki, Y.	
AUTHORS	Functional annotation of a full-length mouse cDNA collection	
TITLE	Nature 409 (6821), 685-690 (2001)	
JOURNAL	21085660	
MEDLINE	11217851	
PUBMED		
REFERENCE	The FANTOM Consortium and the RIKEN Genome Exploration Research	
AUTHORS	Group Phase I & II Team.	
TITLE	Analysis of the mouse transcriptome based on functional annotation	
JOURNAL	of 60,770 full-length cDNAs	
MEDLINE	Nature 420, 563-573 (2002)	
PUBMED	6 (bases 1 to 4053)	
REFERENCE	Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,	
AUTHORS	Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,	
TITLE	Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,	
JOURNAL	Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kaga, I., Kasukawa, T.,	
MEDLINE	Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,	
PUBMED	Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,	
REFERENCE		


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Technologies. Note: this is a NIH_MGC Library."

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Matches 796; Conservative 0; Mismatches 14; Indels 3; Gaps 2;

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BG763500.1 GI:14074153
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 878)
AUTHORS
NIH-MGC http://mgc.nci.nih.gov/.
TITLE
National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL
Unpublished
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: csapbs@mail.nih.gov
Tissue Procurement: ATCC/DCTD/PTP
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
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High quality sequence stop: 811.
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into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGAG(G). Size-selected >500bp for average insert size
1.8kb. Library constructed by Ling Hong in the laboratory
of Gerald M. Rubin (University of California, Berkeley)
using ZAP-cDNA synthesis kit (Stratagene) and Superscript
II RT (Life Technologies). Note: this is a NIH_MGC
Library."

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Query Match      66.2%; Score 759.4; DB 12; Length 878;
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Db 182 ATGGACCGGGAACCTTAAGAGTCCAGATACTGTGCTGAGTGTAAATAGGCTGATCCTGCT 241

QY 503 GAGGAGGAGACTTTTGGGCGAGTCAAGCATGTTGGGCTTCAAGATCACCTACTTTGCA 562
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VERSION BUS38351.1 GI:22848792
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Mammalia; Eutheria; Primates; Catarrhini, Hominidae; Homo.
REFERENCE 1 (bases 1 to 955)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
cdna Library Preparation: Rubin Laboratory
cdna Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
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http://image.llnl.gov
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following 5' adaptor: GGACGAG(G). Library constructed by
Ling Hong in the laboratory of Gerald M. Rubin (University
of California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."
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Best Local Similarity 97.8%; Pred. No. 2.9e-27;
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JOURNAL			
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Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH MGC Library."

BASE COUNT 219 a 244 c 239 g 202 t

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5', mRNA sequence.
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VERSION
BM452174.1 GI:18501214
KEYWORDS
EST.
SOURCE
Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 995)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaabs@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DPH
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLNL2200 row: f column: 03
High quality sequence stop: 638.

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Site: 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 2 kb. Library constructed by Life
Technologies."

BASE COUNT 224 a 273 c 249 g 248 t 1 others
ORIGIN
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Best Local Similarity 99.6%; Pred. No. 6.5e-24;
Matches 674; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Job time : 2789 secs
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Job time : 2789 secs

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QY	721	TGATCTTCAGGATTTCTTGAGTCGGATCTTTCAAGTACCCCGGCGAGATGCCCAATGG	780
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Direct Submission
Unpublished
2 (bases 1 to 247309)
Worley, K.C.

Direct Submission
Submitted (23-Oct-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: <http://www.hgsc.bcm.tmc.edu/>
Contact: hgsc-hs1p@bcm.tmc.edu
Project Information

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 2 contigs. The true order of the pieces
 * is not known and their order in this sequence record is

- * arbitrary. Gaps between the contigs are represented as
- * runs of N, but the exact sizes of the gaps are unknown.
- * This record will be updated with the finished sequence.
- * as soon as it is available and the accession number will
- * be preserved.

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*	246160	246259: gap of unknown length
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misc feature

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clone end:T7"
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57.6%; Score 661.2; DB 2; Length 2

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07; Conservative 0; Mismatch 0
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Db	110172	CTGCCACGCTGAAGAGGAAGTAGCCGACTCTTGATTATGCTCGGTTTCTCGAGGATGA	110231
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QY	181	GGCCTATAGACAGCTGGCAGTGTGTTGATCTCTGACAAAAATCATCATCCCGGGCTGA	240
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QY	241	GGAGGCCCTTCAAGGTTTTGCGAGCAGCTTGGGACATTTGTCAGCAATGCTGAAAAAGCGAAA	300
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QY	421	AGGAAAGCATAGGAGGTTTTGAAATGGACCGGGAAACCTAAGAGTGGCCAGATACTGTGCTGA	480
Db	110532	AGGAAAGAAATAGGGGTTTTGAAAGGACTGGGAAACCAAGAGTGGCAGATACTGTGCTGA	110591
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Db	110592	CTGTAAACAGGCTTCATCTCTGTGAGGAAGAGTCTTCTGGGTAGAGTCAAGGATGTTGGG	110651

QY 901 AC GTT GAT G C C C C T T C T T - - T C C T C A A A T C R A T G T C A G G A G T C A A A A G G G C T G T - - - 955
Db 142449 A C G A T G A A A C A C T T C T C T T C T T C A G T C A A T A T C A G G A G T C A A A A G G G C T G T G T A 142390

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RESULT 14
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LOCUS Homo sapiens LYST-interacting protein LIP6 mRNA, complete cds.
DEFINITION AF141342
ACCESSION AF141342
VERSION AF141342.1 GI:12239359
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 754)
Tchernev,V.T., Mansfield,T.A., Giot,L., Kumar,A.M., Nandabalan,K.,
Li,Y., Mishra,V.S., Dettler,J.C., Rothberg,J.M., Wallace,M.R.,
Southwick,F.S. and Kingsmore,S.F.
Interactions of the Chediak-Higashi lysosomal-trafficking regulator
protein with SNARE complex and signal transduction proteins
Unpublished
2 (bases 1 to 754)
Tchernev,V.T., Mansfield,T.A., Giot,L., Kumar,A.M., Nandabalan,K.,
Li,Y., Mishra,V.S., Dettler,J.C., Rothberg,J.M., Wallace,M.R.,
Southwick,F.S. and Kingsmore,S.F.
Direct Submission
Submitted (08-APR-1999) Full-Length Cloning, CuraGen Corporation,
12085 Research Drive, BDI, Alachua, FL 32615, USA
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BASE COUNT 193 a 185 c 200 g 176 t
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Query Match 64.8%; Score 743; DB 9; Length 754;
Best Local Similarity 99.9%; Pred. No. 5.6e-229;
Matches 754; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

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Db 121 AGGAAAGCATGAGGAGTTGTAATGCGACCGGAACCTAAGAGTGCAGATCTGTGCTGA 180

QY 481 GTGTAATAGGCTGCATCCTGCTGAGCAAGGAGACATTTGGGCAGAGTCAAGCATGTTGGG 540
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QY 541 CCTCAAGATCACCTACTTTGCATCGATGGATGGAAAGGTGTATGACATCACAGAGTGGGC 600

Db 241 CCTCAAGATCACCTACTTTGCATCTGTGATGGAAGGTGTATGACATCACAGATGGGC 300
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Db 301 TGGATGCCACGGTGTAGGTATCTCCCCAGATACCCACAGAGTCCCTTATCACATCTCATTT 360
QY 661 TGGTTCTCGGATTCAGGCCACAGAGGGCGCGAGAGCCACCCAGATGCCCTCTCTGC 720
Db 361 TGGTTCTCGGATTCAGGCCACAGAGGGCGCGAGAGCCACCCAGATGCCCTCTCTGC 420
QY 721 TGATCTTCAGGATTTCTTGAGTCGGATCTTTCAAGTATACCCCGAGGCGAGATGCCAATGG 780
Db 421 TGATCTTCAGGATTTCTTGAGTCGGATCTTTCAAGTATACCCCGAGGCGAGATG-CCAATGG 479
QY 781 GAACTTTCTTTGACGCTCTCAGCCTGCGCTGAGCGCGTGCAGCCTCTAAGCCCAACAG 840
Db 480 GAACTTTCTTTGACGCTCTCAGCCTGCGCTGAGCGCGTGCAGCCTCTAAGCCCAACAG 539
QY 841 CACAGTACCCAAAGGAGAAAGCCAAAACCTAAGCGCGGGAAGAAAGTGAAGAGGCCCTTCCA 900
Db 540 CACAGTACCCAAAGGAGAAAGCCAAAACCTAAGCGCGGGAAGAAAGTGAAGAGGCCCTTCCA 599
QY 901 ACCTTGATGCCCTTCTCTTCTCAAAATCAATGTCAAGGAGTCAAAAGGGCTGTAGCAC 960
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QY 961 AGGATCGAGTTTGATTTATCTCTCCGCCAACACCTAGGAACCTGAATCTTTTCTTTT 1020
Db 660 AGGATCGAGTTTGATTTATCTCTCCGCCAACACCTAGGAACCTGAATCTTTTCTTTT 719
QY 1021 TATTTTTCAGATGGAGTCTTGCTCTGTTGCCAG 1055
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RESULT 15
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LOCUS Rattus norvegicus clone CH230-57L7, WORKING DRAFT SEQUENCE, 2
DEFINITION AC097837
ACCESSION AC097837
VERSION HTG: HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
KEYWORDS Rattus norvegicus (Norway rat)
SOURCE Rattus norvegicus
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus
1 (bases 1 to 247309)
Muzny,D.Marie., Metzker,M.Lee., Abramzon,S., Adams,C., Alder,J.,
Allen,C., Allen,H., Alsbrooks,S., Amin,A., Anguiano,D.,
Anyalebechi,V., Aoyagi,A., Ayodeji,M., Baca,E., Baden,H.,
Baldwin,D., Bandaranaike,D., Barber,M., Barnstead,M., Benahmed,F.,
Biswal,K., Blair,J., Blankenburg,K., Blyth,P., Brown,M.,
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Cardenas,V., Carter,K., Cavazos,I., Ceasar,H., Center,A.,
Chacko,J., Chavez,D., Chen,G., Chen,R., Chen,Y., Chen,Z., Chu,J.,
Cleveland,C., Cockrell,R., Cox,C., Coyle,M., Cree,A., D'Souza,L.,
Davila,M.L., Davis,C., Davy-Carroll,L., De Anda,C., Dederich,D.,
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Egan,A., Escotto,M., Eugene,C., Evans,C.A., Falls,T., Fan,G.,
Fernandez,S., Finley,M., Flagg,N., Forbes,L., Foster,M., Foster,P.,
Fraser,C.M., Gabisi,A., Ganta,R., Garcia,A., Garner,T., Garza,M.,
Gebregorgis,E., Geer,K., Gill,R., Grady,M., Guerra,W., Guevara,W.,
Gunaratne,P., Haaland,W., Hamill,C., Hamilton,C., Hamilton,K.,
Harvey,Y., Havlak,P., Hawes,A., Henderson,N., Hernandez,J.,
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Hollins,B., Howells,S., Hulyk,S., Hume,J., Idlebird,D., Jackson,A.,
Jackson,L., Jacob,L., Jiang,H., Johnson,B., Johnson,R., Jolivet,A.,
Karpachy,S., Kelly,S., Kelly,S., Khan,Z., King,L., Kovar,C.,
Kowis,C., Kraft,C.L., Lebow,H., Levan,J., Lewis,L., Li,Z., Liu,J.,
Liu,J., Liu,W., Liu,Y., London,P., Longacre,S., Lopez,J.,

Williams,G., Williamson,A., Wlezyk,R., Wooden,S., Worley,K.,
Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,
Weinstock,G. and Gibbs,R.

TITLE
JOURNAL
AUTHORS

Direct Submission
Unpublished
2 (bases 1 to 263371)
Worley,K.C.

TITLE
JOURNAL

REFERENCE
AUTHORS

Direct Submission
Submitted (23-OCT-2001) Human Genome Sequencing Center, Department
of Molecular and Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA

TITLE
JOURNAL

COMMENT

On Oct 10, 2002 this sequence version replaced gi:21953452.
The sequence in this assembly is a combination of BAC based reads
and whole genome shotgun sequencing reads assembled using Atlas
(<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
in the feature table below represents a scaffold in the Atlas
assembly (a 'contig-scaffold'). Within each contig-scaffold,
individual sequence contigs are ordered and oriented, and separated
by sized gaps filled with Ns to the estimated size. The sequence
may extend beyond the ends of the clone and there may be sequence
contigs within a contig-scaffold that consist entirely of whole
genome shotgun sequence reads. Both end sequences and whole genome
shotgun sequence only contigs will be indicated in the feature
table.

----- Genome Center
Center: Baylor College of Medicine
Center code: BCM

Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: hgsc-help@bcm.tmc.edu

----- Project Information

Center project name: TUDU

Center clone name: CH230-2H10

----- Summary Statistics

Assembly program: Phrap; version 0.990329

Consensus quality: 243674 bases at least Q40

Consensus quality: 246830 bases at least Q30

Consensus quality: 248548 bases at least Q20

Estimated insert size: 247731; sum-of-contigs estimation

Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
(see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence.
* as soon as it is available and the accession number will
* be preserved.

* 1 258056: contig of 258056 bp in length
* 258057 258156: gap of unknown length
* 258157 261384: contig of 3228 bp in length
* 261385 261484: gap of unknown length
* 261485 263371: contig of 1887 bp in length.

FEATURES

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Matches 862; Conservative 0; Mismatches 117; Indels 6; Gaps 2;

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QY 301 GGAGTATGAGATGAACAGAAATGCGAGAAATGAGCTGAGCGGTGAGTAAATCAGTTTCT 360
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QY 361 GTCCAAGCTGCAAGATGACCTCAAGAGGCAATGAATATATGATGTAGCGGATGCCA 420
DB 142989 TTGCAAGCTGCAAGATGATTTCAAGAGGCAATGAATAGATGATGCGCGGTCGCA 142930
QY 421 AGGAAGCATAGAGGTTTGAATGAGCGGAACTTAAGAGTGCAGATATCTGTCTGA 480
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DB 142809 CCTCAAGATCACTACTTTTGCACTGATGATGGAAGGTGATGACATCAGAGAGTGGC 142750
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QY 721 TGATCTTCAGGATTTCTTGAAGTCCGATCTTTCAAGTACCCAGGCGGAGATGCCCAATGG 780
DB 142629 TGACCTGAGGATTTCTTGAAGCGCGATCTTTCAAGTACCTCCAGGCGGATGTCCAATGG 142570
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This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, GenomeScan gene prediction.

FEATURES	source	analysis, location/Qualifiers
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		/mol_type="mRNA"
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		Best Local Similarity 69.2%; Score 793.6; DB 10; Length 2402;
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Qy	61	CTGCCAGCTGAAGAGGAATGGCTCGACTCTTCCACCATGCTGGGTTTCTCTCAGGATGA 120
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Qy	121	GCTAAACCCCTTTCATCTACTTGGGGTGTAGGCCACAGCATCAGATGTTGAACTGAAGAA 180
Db	1473	ACTAAACCCCTTTTCATGTCTGGGGTGTGAAGCTACAGCATCCGACACTGAAGAA 1532
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Db	1593	GGAGGCCTTCAAAATTTTGGGGCAGCTTGGGACATTTGTGAGCAATGTCAGCAATGTCAGAGGGCGAA 1652
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Qy	361	GTCACAGCTGCAGATGACCTCAAGGAGGCAATGAATCTATGATGTGAGCGGATGCCA 420
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Qy	421	AGGAAAGCATAGGAGGTTTGAATGGACCGGGAACTTAAGATGCCAGATCTGTGCTGA 480
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MEDLINE 21436421
PUBMED 11551646
REFERENCE 2 (bases 1 to 2692)
AUTHORS Neill,J.D. and Ridpath,J.F.
TITLE Direct Submission
JOURNAL Submitted (27-SEP-2000) VPDRLU, National Animal Disease Center,
2300 Dayton Ave., Ames, IA 50010, USA
REFERENCE 3 (bases 1 to 2692)
AUTHORS Neill,J.D. and Ridpath,J.F.
TITLE Direct Submission
JOURNAL Submitted (02-OCT-2001) VPDRLU, National Animal Disease Center,
2300 Dayton Ave., Ames, IA 50010, USA
REMARK Sequence update by submitter
COMMENT On Oct 2, 2001 this sequence version replaced gi:12584131.
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QY 902 CGTTGATGCGCT 955
Db 1977 CGTTGACACCCCT 2030

RESULT 11
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DEFINITION Mus musculus, RIKEN cDNA 573055F12 gene, clone MGC:19282
IMAGE:4016209, mRNA, complete cds.
ACCESSION BC011146
VERSION BC011146.1 GI:15029845
KEYWORDS MGC.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
Strausberg,R.
Direct Submission
Submitted (25-JUL-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgapbs-remail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LILNL)
DNA Sequencing by: Baylor College of Medicine Human Genome
Sequencing Center
Center code: BCM-HGSC
Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>
Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Hale, S.M.,
Yoon, V.S., Kowis, C.R., Lawrence, S., Martin, R.G., Muzny, D.M.,
Richards, S., Gibbs, R.A.
Clone distribution: MGC clone distribution information can be found
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Series: IRAC Plate: 24 Row: a Column: 19

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VERSION AV027881.1
KEYWORDS Bos taurus (cow)
SOURCE Bos taurus
ORGANISM Bos taurus (cow)
REFERENCE 1 (bases 1 to 3159)
AUTHORS Rinck, G., Birghan, C., Harada, T., Meyers, G., Thiel, H.J. and Tautz, N.
TITLE A cellular J-domain protein modulates polypeptide processing and
cytopathogenicity of a pestivirus
JOURNAL J. Virol. 75 (19), 9470-9482 (2001)
MEDLINE 21424530
PUBMED 11533209
REFERENCE 2 (bases 1 to 3159)
AUTHORS Rinck, G., Tautz, N. and Meyers, G.
TITLE Direct Submission
JOURNAL Submitted (20-FEB-2001) Institut fuer Virologie (FB10),
Justus-Liebig-Universitaet Giessen, Frankfurterstrasse 107, Giessen
35392, Germany
FEATURES
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Best Local Similarity 92.3%; Pred.No. 2e-258;
Matches 906; Conservative 0; Mismatches 60; Indels 16; Gaps 2;
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DEFINITION Bos taurus DnaJ protein mRNA, partial cds.
ACCESSION AF308815
VERSION AF308815 2 GI:15843560
KEYWORDS
SOURCE Bos taurus (cow)
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovidae; Bovinae; Bos.
1 (bases 1 to 2692)
Recombination with a cellular mRNA encoding a novel DnaJ protein
results in biotype conversion in genotype 2 bovine viral diarrhoea
viruses
Virus Res. 79 (1-2), 59-69 (2001)
JOURNAL

QY 1042 GCTCTGTTGCCAGCTGGAGTGCAGTGGTGTGATCTCAGCTTACTGCAACCTCTGTCTCC 1101
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DEFINITION AY027882
ACCESSION AY027882
VERSION AY027882.1 GI:15777194
KEYWORDS
SOURCE Bos taurus (cow)
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovidae; Bovinae; Bos.
REFERENCE 1 (bases 1 to 2402)
AUTHORS Rinck, G., Birghan, C., Harada, T., Meyers, G., Thiel, H. J. and Tautz, N.
TITLE A cellular J-domain protein modulates polyprotein processing and
cytopathogenicity of a pestivirus
J. Virol. 75 (19), 9470-9482 (2001)
JOURNAL 21424530
MEDLINE 11533209
PUBMED
REFERENCE 2 (bases 1 to 2402)
AUTHORS Rinck, G. and Tautz, N.
TITLE Direct Submission
JOURNAL Submitted (22-FEB-2001) Institut fuer Virologie (FB10),
Justus-Liebig-Universitaet Gießen, Frankfurterstrasse 107, Gießen
35392, Germany

FEATURES
source Location/Qualifiers
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ORIGIN

Query Match 72.7%; Score 834; DB 4; Length 2402;
Best Local Similarity 92.3%; Pred. No. 2e-258;
Matches 906; Conservative 0; Mismatches 60; Indels 16; Gaps 2;

QY 2 CTTTGGGTCAAGCAGCAATATTAAATAGCAGGGGAATGCACCTGTAGCTAGTGGCGCTAC 61
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QY 842 ACAGTACCAAGGAGAACCAAACTTAAGCGCGCGAAGAAAGTAGGAGGCGCTTCCAA 901
Db 2222 ACAGTACCAAGGAGAACCAAACTTAAGCGCGCGAAGAAAGTAGGAGGCGCTTCCAA 2281
QY 902 CGTTGATGCCCTTCTCTTCTTCTCAATCAATGTGAGGAGTCAAAAGGGCTGT----AG 957
Db 2282 CGTTGATGCCCTTCTCTTCTTCTTCTTCTCAATCAATGTGAGGAGTCAAAAGGGCTGT----AG 957
QY 958 CACAGGATGGAGTTTGATTTAT 979
Db 2342 CACCAGATGGAGTTTGATTTGT 2363

RESULT 9
AY027881 3159 bp mRNA linear MAM 25-SEP-2001
LOCUS Bos taurus J-domain protein Jiv mRNA, complete cds.
DEFINITION

Db	271	GGCTATAGACAGCTGGCAGTGTGGTTTCATCTCTGACAAATAATCATATCCCCGGGCTGA	330
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Qy	301	GGAGTATGAGATGAACGAATGGCAGAGATGAGTGGCGGTCAGTAAATGAGTTTCT	360
Db	391	GGAGTATGAGATGAACGAATGGCAGAGATGAGTGGCGGTCAGTAAATGAGTTTCT	450
Qy	361	GTCCAAGCTCAGATGACCTCAAGGAGCAATGAATACTATGATGTGTAGCGATGCCA	420
Db	451	GTCCAAGCTCAGATGACCTCAAGGAGCAATGAATACTATGATGTGTAGCGATGCCA	510
Qy	421	AGGAAGCATAGGAGGTTTCAATAGGACCGGGAACCTTAAGAGTGCACAGATACTGTGCTGA	480
Db	511	AGGAAGCATAGGAGGTTTCAATAGGACCGGGAACCTTAAGAGTGCACAGATACTGTGCTGA	570
Qy	481	GTGTAATAGGCTGCATCTCTCAGGAAGGAGACTTTTGGCAGAGTCAAGCATGTTGGG	540
Db	571	GTGTAATAGGCTGCATCTCTCAGGAAGGAGACTTTTGGCAGAGTCAAGCATGTTGGG	630
Qy	541	CCTCAAGATCACCTACTTTTGCATCTGATGGATGGAAAGGTGTATGACATCAGAGTGGG	600
Db	631	CCTCAAGATCACCTACTTTTGCATCTGATGGATGGAAAGGTGTATGACATCAGAGTGGG	690
Qy	601	TGGATGCCACGGTGTAGTATCTCCCGAGATACCCAGAGTCCCTATCACATCTCATT	660
Db	691	TGGATGCCACGGTGTAGTATCTCCCGAGATACCCAGAGTCCCTATCACATCTCATT	750
Qy	661	TGGTTCTCGGATTTCCAGGACCCAGAGGCGGCGAGAGCCACCCAGATCCCTCTCTGC	720
Db	751	TGGTTCTCGGATTTCCAGGACCCAGAGGCGGCGAGAGCCACCCAGATCCCTCTCTGC	810
Qy	721	TGATCTTCAGGATTTCTTGTAGTCCGATCTTTTCAAGTACCCCGGAGAGTGCCTCAATGG	780
Db	811	TGATCTTCAGGATTTCTTGTAGTCCGATCTTTTCAAGTACCCCGGAGAGTGCCTCAATGG	870
Qy	781	GAATCTTTTGCAGTCTCTCAGCTGCGCTTGGAGCGGCTGAGCGCTCTAAGCCCAACAG	840
Db	871	GAATCTTTTGCAGTCTCTCAGCTGCGCTTGGAGCGGCTGAGCGCTCTAAGCCCAACAG	930
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RESULT 7			
AF351784			
LOCUS			
DEFINITION			
Homo sapiens dopamine receptor interacting protein mRNA, partial cds.			
AF351784.1 GI:14194056			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
Homo sapiens (human)			
Homo sapiens			
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
1 (bases 1 to 953)			
Bermak, J.C., Li, M., Bullock, C. and Zhou, Q.-Y.			
Regulation of transport of the dopamine D1 receptor by a new			
membrane-associated ER protein			
Nat. Cell Biol. 3 (5), 492-498 (2001)			
JOURNAL			
MEDLINE			
PUBMED			
11331877			
2 (bases 1 to 953)			
Bermak, J.C., Li, M., Bullock, C.M. and Zhou, Q.-Y.			
Direct Submission			
TITLE			
Submitted (21-PEB-2001) Pharmacology, University of California,			
JOURNAL			
19182 Jamboree Blvd., Irvine, CA 92697, USA			
FEATURES			
Location/Qualifiers			
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BASE COUNT	240 a	236 c	246 g
231 t			
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Query Match	75.6%	Score 867.2;	DB 9; Length 953;
Best Local Similarity	99.4%	Pred. No. 3.1e-269;	
Matches	881;	Conservative 0;	Mismatches 3; Indels 2; Gaps 1;
QY	264	CAGCTTGGGACATTTGTAGCAATGCTGAAAAGGAAAGGAGTATGAGATGAAACGAATGG	323
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QY	324	CAGAGAATGAGCTGAGCGGTCAAGTAAATGAGTTTCTGTCCAAGCTGCAAGATGACCTCA	383
DB	61	CAGAGAATGAGCTGAGCGGTCAAGTAAATGAGTTTCTGTCCAAGCTGCAAGATGACCTCA	120
QY	384	AGAGGCAATGAATACATATGATGTAGCGCATGCCAAGGAAAGCATAGAGGTTTGAAA	443
DB	121	AGAGGCAATGAATACATATGATGTAGCGCATGCCAAGGAAAGCATAGAGGTTTGAAA	180
QY	444	TGGACCGGGAACCTAAGAGTGGCAGATACCTGCTGAGTGTAAATAGGCTGCATCTCTGCTG	503
DB	181	TGGACCGGGAACCTAAGAGTGGCAGATACCTGCTGAGTGTAAATAGGCTGCATCTCTGCTG	240
QY	504	AGAAAGGAGACTTTTGGGAGAGTCAAGCATGTTGGGCTCAAGATCACCTACTTTGGCAC	563
DB	241	AGAAAGGAGACTTTTGGGAGAGTCAAGCATGTTGGGCTCAAGATCACCTACTTTGGCAC	300
QY	564	TGATGGATGAAAGGTGTATGACATCACAGAGTGGGCTGGATGCCAGCGTGTAGGTATCT	623
DB	301	TGATGGATGAAAGGTGTATGACATCACAGAGTGGGCTGGATGCCAGCGTGTAGGTATCT	360
QY	624	CCCGAGATACCCAGAGTCCCTTATCACATCTCATTTGGTTCTCGGATTCAGGACCA	683
DB	361	CCCGAGATACCCAGAGTCCCTTATCACATCTCATTTGGTTCTCGGATTCAGGACCA	420
QY	684	GAGGCGGCGAGAGGACCCAGATGCCCTCTCTGCTGATCTTCAGGATTTCTTGAGTC	743
DB	421	GAGGCGGCGAGAGGACCCAGATGCCCTCTCTGCTGATCTTCAGGATTTCTTGAGTC	480
QY	744	GGATCTTTCAAGTACCCCGAGGCGAGATGCCAATGGGAACCTTTTTCAGCTCCTCAGC	803
DB	481	GGATCTTTCAAGTACCCCGAGGCGAGATGCCAATGGGAACCTTTTTCAGCTCCTCAGC	540
QY	804	CTGCCCTCGAGCGCTGCGAGCTCTTAAGCCCAACAGCAGTACCCAGGAGAGGCCA	863
DB	541	CTGCCCTCGAGCGCTGCGAGCTCTTAAGCCCAACAGCAGTACCCAGGAGAGGCCA	600
QY	864	AACTAAGCGGCGGAAGAAAGTGGAGAGCGCTTCCAAAGCTTCATGCCCTCTCTTTCC	923
DB	601	AACTAAGCGGCGGAAGAAAGTGGAGAGCGCTTCCAAAGCTTCATGCCCTCTCTTTCC	660
QY	924	TCAATCAATGTGAGGAGTCAAAAGGCTGTAGCAGAGATGGAGTTTGATTTATCCCT	983
DB	661	TCAATCAATGTGAGGAGTCAAAAGGCTGTAGCAGAGATGGAGTTTGATTTATCCCT	720
QY	984	CTTCCCCCAACCTAGGAACCTGAATCTTTTTT - CTTTTATTTTTTGAGATGGAGTCTT	1041
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QY	241	GGAGGCTTCAAGGTTTGGAGCAGCTTGGACATTTCTAGCAATCTGTAAGACGAAA	300
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QY	301	GGAGTATCAGATGAAACGAATGGCAGAGAAATGAGTCCGCGTCACTAAATGAGTTCT	360
Db	118042	GGATATCAGATGAAACGAATGGCAGAGAAATGAGTCCGCGTCACTAAATGAGTTCT	118101
QY	361	GTCCAAAGTCAAGATGACCTCAAGGAGGCAATGAATCTATGATGTAGCCGATGCCA	420
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QY	421	AGGAACCATAGGAGTTTGAATTCGACCCGGAACCTTAAGTCCAGATCTGTGCTGA	480
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QY	481	GTGTAATAGGCTGATCTCTGTAGGAGGAGACTTTTGGCAGAGTCAAGCATGTTGGG	540
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QY	541	CCTCAAGATCACCTACTTTGCATCTGATGGATGGAAGGTGTATGACATCAGAGTGGGC	600
Db	118282	CCTCAAGATCACCTACTTTGCATCTGATGGATGGAAGGTGTATGACATCAGAGTGGGC	118341
QY	601	TGATGTCAGGCTGATGATCTCTCCAGATACCCACAGAGTCCCTATCACATCTCAT	660
Db	118342	TGATGTCAGGCTGATGATCTCTCCAGATACCCACAGAGTCCCTATCACATCTCAT	118400
QY	661	TGTTCTCGGATTCAGGACCCAGAGGCGGAGAGGACCCACAGATCCCTCTCTGC	720
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QY	721	TGATCTTCAGGATTTCTGAGTGGATCTTCAAGTACCCCGGAGAGTCCCAATGG	780
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QY	781	GAATCTTTTGCAGTCTCTCAGGCTGCGCTGGAGCGCTGCGAGCTCTTAAGCCCAACAG	840
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QY	901	ACGTTG-ATCCCCCTCTCTTCTCTCAATGTCAAGTCAAGGAGTCAAGGCGTGT-----	955
Db	118641	ACGTTGAGGCCCCCTCTCTTCTCTCAAAATGTCAAGGAGTCAAGGAGTGTGTAC	118700
QY	956	AGCAGAGGATGAGTTGATTTATCCCTCTCTCCCAACACCTAGGAACCTGAATCTTTT	1015
Db	118701	AGCAGGATGAGTTGATTTATCCCTCTCTCCCAACACCTAGGAACCTGAATCTTTT	118760
QY	1016	CTTTTATTTTGTAGATGAGTCTTGTCTGTGTCAGGCTGAGTGGAGTGTGTAT	1075
Db	118761	CTTTTATTTTGTAGATGAGTCTTGTCTGTGTCAGGCTGAGTGGAGTGTGTAT	118819
QY	1076	CTCAGCTTACTGCAACTCTGCTCCGGTTCAGCAATTTCCCATCTCAGCTCTCTG	1135
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RESULT 6			
BC016941			
LOCUS			
DEFINITION Homo sapiens, clone MGC:21452 IMAGE:344846, mRNA, complete cds.			
ACCESSION BC016941			
VERSION BC016941.1 GI:16877383			
KEYWORDS MGC.			

SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 1818)
TITLE	Strausberg, R.
JOURNAL	Direct Submission
REMARK	Submitted (05-NOV-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
COMMENT	NTM-MGC Project URL: http://mgc.nci.nih.gov Contact: MGC help desk Email: cgabs-remail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305 Web site: http://www.shgc.stanford.edu Contact: (Dickson, Mark) mcd@paxil.stanford.edu Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.
FEATURES	Location/Qualifiers
source	1..1818 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="MGC:21452 IMAGE:344846" /tissue_type="Placenta, choriocarcinoma" /clone_id="NIH MGC_10" /lab_host="DH10B" /note="Vector: pCMV-SPORT6" 401..1570 /codon_start=1 /product="Unknown (protein for MGC:21452)" /protein_id="AAH16941.1" /db_xref="GI:16877384" /translation="MKRMAENLSRVNEFLSKLDLKEAMNTMWCSCQGHRRFE MDREPKARYCAECNRPABEGDFWASSMLGLKITYFALMDGVYDITTEWAGCORV GTSPTHRVYHISFGSRIPGTRQRPADPADLODFLSRIFOVPGOMPNGRFF AAPQAPGAAASAKNSVPKGEAKPKRKLAEKQECLEGLKGIKQDLIRLQ AYLEHABEEANEEDVLGDETEETKPIELPVKEEPEKTVDAAEKKVKITSEI POTERNQKAEAFNPVSLSEKKVAAAFGISVPTKGLSDNPMVNLDKKERAQ RFLGVSSISRSKDEDEKLKKEKRFVITSSAGTGTEDTEAKRKRAERFGIA"
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QY 361 GTCACAGCTCAAGATGACCTCAAGGAGCAATGAATACTATGATGTGAGCGGATGCCA 420
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QY 421 AGAAAGCATAGGAGGTTTTGAATGAGCCGGGAACCTTAAGAGTGCCAGATACTGTGCTGA 480
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QY 661 TGGTTCTCGGATTTCCAGGCCACAGAGGCGGCGAGAGCCACCCAGATCCCTCTCTGCG 720
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QY 721 TGATCTTCAGGATTTCTTGATCGGATCTTTCAAGTACCCCGAGGCGAGATGCCCAATGG 780
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QY 1141 CTGGGAT 1147
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RESULT 5
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LOCUS Papio anubis clone rp41-88j2, WORKING DRAFT SEQUENCE.
DEFINITION AC129837
ACCESSION AC129837
VERSION AC129837.16 GI:30725963
KEYWORDS HTG; HTGS-PHASE2; HTGS-DRAFT.
SOURCE Papio anubis (olive baboon)
ORGANISM Papio anubis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;
Cercopitheciinae; Papio.
REFERENCE
AUTHORS 1 (bases 1 to 190201)
TITLE Papio anubis BAC Clone rp41-88j2
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 190201)
AUTHORS Prescott, A., Shaikh, T. and Roe, B.A.
TITLE Direct Submission
JOURNAL Submitted (03-AUG-2002) Department Of Chemistry And Biochemistry,
The University Of Oklahoma, 620 Parrington Oval, Room 208, Norman,
OK 73019, USA
REFERENCE 3 (bases 1 to 190201)
AUTHORS Prescott, A., Shaikh, T. and Roe, B.A.
TITLE Direct Submission
JOURNAL Submitted (11-JUN-2003) Department Of Chemistry And Biochemistry,
The University Of Oklahoma, 620 Parrington Oval, Room 208, Norman,
OK 73019, USA
COMMENT
OK May 15, 2003 this sequence version replaced gi:30698658.
----- Genome Center
Center: Department Of Chemistry And Biochemistry
The University Of Oklahoma
Center code: UOKNOR

* NOTE: This is a 'working draft' sequence. It currently
* consists of 1 contigs. Gaps between the contigs
* are represented as runs of N. The order of the pieces
* is believed to be correct as given, however the sizes
* of the gaps between them are based on estimates that have
* provided by the submitter.
* This sequence will be replaced
* by the finished sequence as soon as it is available and
* the accession number will be preserved.
* 1 190201: contig of 190201 bp in length.
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ORIGIN

Query Match 84.0%; Score 963.6; DB 2; Length 190201;
Best Local Similarity 92.1%; Pred. No. 2.9e-300;
Matches 1061; Conservative 0; Mismatches 84; Indels 7; Gaps 4;
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QY 181 GGCCTATAGACAGTGGCAGTGTGTTTCATCTCTGCAAAAAATCATCATCCCGGGCTGA 240
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QY	241	GGAGGCTTCAAGGTTTTCGAGCAGCTTGGGACATTTGTACGAATGCTGAAAGCGAAA	300
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QY	301	GGAGTATGAGATGAACCAATGGCAGAGATGAGTCAGCCGGTCAGTAAATGAGTTTCT	360
Db	745	GGAGTATGAGATGAACCAATGGCAGAGATGAGTCAGCCGGTCAGTAAATGAGTTTCT	804
QY	361	GTCCAAAGCTCAAGATGACCTCAAGGAGGCAATGAATACTATGATGTAGCCGATGCCA	420
Db	805	GTCCAAAGCTCAAGATGACCTCAAGGAGGCAATGAATACTATGATGTAGCCGATGCCA	864
QY	421	AGGAAGCATAGGAGTTTGAATGGACCGGGAACCTTAAGAGTGCAGATCTGTGCTGA	480
Db	865	AGGAAGCATAGGAGTTTGAATGGACCGGGAACCTTAAGAGTGCAGATCTGTGCTGA	924
QY	481	GTGTAATAGGCTGATCTCTGCTGAGGAGGAGACTTTTGGCAGAGTCAAGCATGTTGGG	540
Db	925	GTGTAATAGGCTGATCTCTGCTGAGGAGGAGACTTTTGGCAGAGTCAAGCATGTTGGG	984
QY	541	CCTCAAGATCACCTACTTTTGCACCTGATGGATGGAAGGTGTATGACATCAAGAGTGGC	600
Db	985	CCTCAAGATCACCTACTTTTGCACCTGATGGATGGAAGGTGTATGACATCAAGAGTGGC	1044
QY	601	TGGATGCCAGGCTGATGATCTCCCGAGATACCCAGAGTCCCTTATCATCTCAT	660
Db	1045	TGGATGCCAGGCTGATGATCTCCCGAGATACCCAGAGTCCCTTATCATCTCAT	1104
QY	661	TGGTCTCGGATTCAGGACACAGAGGCGCAGAGAGCCACCCAGATGCCCTCTCTGC	720
Db	1105	TGGTCTCGGATTCAGGACACAGAGGCGCAGAGAGCCACCCAGATGCCCTCTCTGC	1164
QY	721	TGATCTTCAGGATTTCTTGTAGTCGGATCTTTCAAGTACCCCGGAGAGTGGCCCAATGG	780
Db	1165	TGATCTTCAGGATTTCTTGTAGTCGGATCTTTCAAGTACCCCGGAGAGTGGCCCAATGG	1224
QY	781	GAACTCTTTTGCAGCTCCTCAGCCTGCCCCGAGCGCTGACGCTCTTAAGCCCAACAG	840
Db	1225	GAACTCTTTTGCAGCTCCTCAGCCTGCCCCGAGCGCTGACGCTCTTAAGCCCAACAG	1284
QY	841	CACAGTACCCCAAGGAGGAGCAACCTTAAGCGCGGAGAAAGTGAAGGCGCTTCCA	900
Db	1285	CACAGTACCCCAAGGAGGAGCAACCTTAAGCGCGGAGAAAGTGAAGGCGCTTCCA	1344
QY	901	ACGTTGATGCCCTTCTTTCTCAATCAATCAATCAATCAATCAATCAATCAATCAATCA	960
Db	1345	ACGTTGATGCCCTTCTTTCTCAATCAATCAATCAATCAATCAATCAATCAATCAATCA	1404
QY	961	AGGATGGAGTTGATTTATCCCTCCTCCCAACACCTAGGAAGTGAATCTTTTCTTTT	1020
Db	1405	AGGATGGAGTTGATTTATCCCTCCTCCCAACACCTAGGAAGTGAATCTTTTCTTTT	1464
QY	1021	TATTTTGTAGTGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1080
Db	1465	TATTTTGTAGTGGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1524
QY	1081	CTTACTGCAACCTTGTCTCCCGGTTCAAGCATTTCTCCATCTCAGCCTCTCTGATAG	1140
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QY	1141	CTGGAT 1147	
Db	1585	CTGGAT 1591	

RESULT 4
BC050271
LOCUS BC050271 4274 bp mRNA linear PRI 11-APR-2003
DEFINITION Homo sapiens, Similar to RIKEN cdna 5730551F12 gene, clone
ACCESSION MGC:17391 IMAGE:3913714, mRNA, complete cds.
VERSION BC050271
KEYWORDS BC050271.1 GI:29792138
MGC.

Source: Homo sapiens (human)
Organism: Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 4274)
Strauberg, R.
Direct Submission
Submitted (08-APR-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: gcaps-i@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: http://www.shgc.stanford.edu
Contact: (Dickson, Mark) mcd@paxil.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAC Plate: 22 Row: 1 Column: 8
This clone was selected for full length sequencing because it passed the following selection criteria: GenomeScan gene prediction.

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ORIGIN
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1147; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1355 CTCCAGCCTGAAGAGAGAGTGGCTGACTTGTACCATGGCTGGGCTCCTCAGGATGA 1414

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ACCESSION			
AK055945			
VERSION			
AK055945.1			
KEYWORDS			
oligo capping: fis (full insert sequence).			
SOURCE			
Homo sapiens (human)			
ORGANISM			
Homo sapiens			
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
1			
Tashiro,H., Yamazaki,M., Watanabe,K., Kumagai,A., Itakura,S.,			
Fukuzumi,Y., Fujimori,Y., Komiyama,M., Sugiyama,T., Irie,R.,			
Otsuki,T., Sato,H., Makamatsu,A., Ishii,S., Yamamoto,J., Isono,Y.,			
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Matsuo,K., Nakamura,Y., Sekine,M., Kikuchi,H., Kanda,K.,			
Wagatsuma,M., Murakawa,K., Kanehori,K., Takahashi-Fujii,A.,			
Oshima,A., Sugiyama,A., Kawakami,B., Suzuki,Y., Sugano,S.,			
Nagahara,K., Masuho,Y., Nagai,K. and Isogai,T.			
NEDO human cDNA sequencing project			
Unpublished			
2 (bases 1 to 2343)			
Isogai,T., Otsuki,T. and Sugiyama,T.			
Direct Submission			
Submitted (24-Oct-2001) Takao Isogai, Helix Research Institute,			
Genomics Laboratory; 1532-3 Yana, Kisarazu, Chiba 232-0812, Japan			
(E-mail:genomics@hri.co.jp, Tel:81-438-52-3975, Fax:81-438-52-3986)			
NEDO human cDNA sequencing project supported by Ministry of			
Economy, Trade and Industry of Japan; cDNA full insert sequencing:			
Research Association for Biotechnology (RAB); cDNA library			
construction: Helix Research Institute (HRI) (supported by Japan			
Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB,			
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Evaluation; clone selection for full insert sequencing: RAB and			
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LOCUS		Sequence 657 from Patent EP1293569.	linear
DEFINITION			PAT 15-APR-2003
ACCESSION		AX713973	
VERSION		AX713973.1	GI:29888901
KEYWORDS			
SOURCE		Homo sapiens (human)	
ORGANISM		Homo sapiens	
REFERENCE		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
AUTHORS		Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
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TITLE		Isogai, T., Sugiyama, T., Otsuki, T., Wakamatsu, A., Sato, H., Ishii, S.,	
JOURNAL		Yamamoto, J. I., Isono, Y., Hio, Y., Otsuka, K., Nagai, K., Irie, R.,	
		Tamechika, I., Seki, N., Yoshikawa, T., Otsuka, M., Nagahari, K. and	
		Masubo, Y.	
		Full-length cDNA	
		Patent: EP 1293569-A 657 19-MAR-2003;	
		Helix Research Institute (JP) ; Research Association for	
		Biotechnology (JP)	
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QY	61	CTGCCAGCCTGAAGAGGAGTGGCTCGACTCTTGACCATGGCTGGGGTTCCTGAGGATGA	120
Db	505	CTGCCAGCCTGAAGAGGAGTGGCTCGACTCTTGACCATGGCTGGGGTTCCTGAGGATGA	564
QY	121	GCTAAACCCCTTTCCATGTACTGGGGGGTTGAGGCCACAGCATCAGATGTTGAACCTGAAGAA	180
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Db	685	GGAGGCCCTTCAAGGTTTTCCGAGCAGCTTGGGACATTTGTACGAAATGCTGAAAAGCGAAA	744

GenCore version 5.1.6
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Searched: 2888711 seqs, 20454813386 residues
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Maximum Match 100%
Listing first 45 summaries

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35: em_htg_rod:
36: em_htg_mam:
37: em_htg_vrt:
38: em_sy:
39: em_htgo_hum:
40: em_htgo_mus:
41: em_htgo_other:

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	1147	100.0	1147	6	AX081438 Sequence
2	1147	100.0	2343	6	AX713973 Sequence
3	1147	100.0	2343	9	AX055945 Homo sapi
4	1147	100.0	4274	9	BC050271 Homo sapi
5	963.6	84.0	190201	2	AC129837 Papio anu
6	883.4	77.0	1818	9	BC016941 Homo sapi
7	867.2	75.6	953	9	AF351784 Homo sapi
8	834	72.7	2402	4	AY027882 Bos tauru
9	834	72.7	3159	4	AY027881 Bos tauru
10	824	71.8	2692	4	AF308815 Bos tauru
11	793.6	69.2	2402	10	BC011146 Mus muscu
12	781.8	68.2	2392	10	AF351783 Rattus no
13	765.8	66.8	263371	2	AC098454 Rattus no
14	743	64.8	754	9	AF141342 Homo sapi
15	661.2	57.6	247309	2	AC097837 Rattus no
16	628.2	54.8	747	6	BD020639 Novel gen
17	628.2	54.8	747	6	BD100577 Novel gen
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19	400.8	34.9	1253	14	AF268178 Bovine vi
20	399	34.8	1258	14	AF268176 Bovine vi
21	360.2	31.4	255930	2	AC123227 Rattus no
22	354.2	30.9	198493	2	AC112674 Mus muscu
23	354.2	30.9	250277	2	AC122757 Mus muscu
24	352.8	30.8	1004	14	AF268171 Bovine vi
25	352.8	30.8	1233	14	AF268172 Bovine vi
26	337.2	29.4	927	14	BD043603 Border dise
27	303.6	26.5	873	14	BDU43602 Border dise
28	298.6	26.0	194221	10	AC113998 Mus muscu
29	297	25.9	717	14	BVD1251N1 Bovine vi
30	294.6	25.7	1229	14	AF268180 Bovine vi
31	294.6	25.7	13196	14	AB078951 Bovine vi
32	294.6	25.7	13203	14	AB078952 Bovine vi
33	285.2	24.9	752	14	AF268177 Bovine vi
34	279.6	24.4	711	14	BVD1251N2 Bovine vi
35	278.6	24.3	852	14	AF268179 Bovine vi
36	272.8	23.8	12602	14	AF144617 Pestiviru
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39	251.4	21.9	12578	14	BV1133738 Bovine vi
40	251.4	21.9	12734	6	AR179057 Sequence
41	251.4	21.9	12734	14	AF268278 Pestiviru
42	251.4	21.9	14078	6	AR123006 Sequence
43	251.4	21.9	14078	6	AR214645 Sequence
44	251.4	21.9	14578	6	AR094147 Sequence
45	251.2	21.9	1114	14	AF268175 Bovine vi

ALIGNMENTS

RESULT 1
AX081438
LOCUS AX081438
DEFINITION Sequence 22 from Patent WO0109178.
ACCESSION AX081438
VERSION AX081438.1 GI:13170261
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Yue,H., Bandman,O., Tang,Y.T., Baughn,M.R., Azimzai,Y. and Lu,D.A.
TITLE Human chaperone proteins
JOURNAL Patent: WO 0109178-A 22 08-FEB-2001;

Pred. No. is the number of results predicted by chance to have a

Query Match 21.9%; Score 251.4; DB 21; Length 12842;
Best Local Similarity 94.2%; Pred. No. 3.3e-66;
Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 404 ATGTGTAGCCGATGCCAAGGAAGCATAGGAGGTTTGAATGGACCGGAACCTAAGAGT 463
DB 4962 ATGTGCACCCGATGCCAAGGAAGCATAGGAGGTTTGAATGGACCGGAACCTAAGAGT 5021
QY 464 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGAGGAAGGAGACTTTTGGGCA 523
DB 5022 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGAGGAAGGAGTACTTTTGGGCA 5081
QY 524 GAGTCAAGCATGTTGGGCTCAAGATCACCTACTTTTGCACCTGATGGATGGAAGGTGTAT 583
DB 5082 GAGTCGACATGTTGGGCTCAAAATCACCTACTTTTGGCTGATGGATGGAAGGTGTAT 5141
QY 584 GACATCACAGATGGGCTGGATGCCAGGCTGAGTATCTCCACAGATACCCACAGAGTC 643
DB 5142 GATATCACAGATGGGCTGGATGCCAGGCTGAGTATCTCCACAGATACCCACAGAGTC 5201
QY 644 CCTATCACATCTCATTTGGTTCTCGGATTCAGGCA 680
DB 5202 CCTGTACATCTCATTTGGTTCTCGGATTCAGGATGCTTTCA 5238

RESULT 15
AAZ36211
ID AAZ36211 standard; DNA; 13198 BP.
XX
AC AAZ36211;
XX
DT 11-FEB-2000 (first entry)
XX
DE Nucleotide sequence of functional HCV-BVDV chimera from pCBV/p7/IRIS-pac.
XX
KW Pseudorevertant; RNA virus; chimera; BVDV; HCV; replication-competent;
KW 5' nontranslated region; 5'NTR; 3' NTR; pestivirus; antiviral;
KW bovine viral diarrhea virus; NADL; vaccine; ss.
OS Chimeric - Hepatitis C virus.
OS Chimeric - Bovine viral diarrhea virus.
XX
PN WO995366-A1.
XX
PD 04-NOV-1999.
XX
PF 23-APR-1999; 99WO-US08850.
XX
PR 24-APR-1998; 98US-0082964.
XX
PA (UNIW) UNIV WASHINGTON.
XX
PI Rice CM, Frolov I, McBride MS;
XX
DR WPI; 2000-013359/01.
XX
PT Chimeric viral RNA, used in vaccine against BVDV -
XX
PS Example 3; Fig 24; 108pp; English.
XX

The present sequence represents a functional Hepatitis C virus (HCV)-bovine viral diarrhea virus (BVDV) chimeric virus of the invention, expressing a dominant selectable marker conferring resistance to puromycin. The specification describes chimeric viral RNA comprising a 5' nontranslated region (5'NTR); an open reading frame (ORF) region; and a 3' NTR; where at least one of the regions is chimeric and comprises a nucleotide sequence from a pestivirus in operable linkage with a heterologous nucleotide sequence, preferably from HCV. The chimeric viral RNA is replication-competent. The chimeric viral RNA can be used in a method for identifying compounds having antiviral activity against HCV. When the pestivirus viral nucleotide sequence is from bovine viral diarrhea virus (BVDV), the chimeric viral RNA can be

CC used in a vaccine against BVDV.
XX
SQ Sequence 13198 BP; 3735 A; 3097 C; 3533 G; 2833 T; 0 other;
Query Match 21.9%; Score 251.4; DB 21; Length 13198;
Best Local Similarity 94.2%; Pred. No. 3.3e-66;
Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

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DB 4149 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGAGGAAGGAGTACTTTTGGGCA 4208
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QY 584 GACATCACAGATGGGCTGGATGCCAGGCTGAGTATCTCCACAGATACCCACAGAGTC 643
DB 4269 GATATCACAGATGGGCTGGATGCCAGGCTGAGTATCTCCACAGATACCCACAGAGTC 4328
QY 644 CCTATCACATCTCATTTGGTTCTCGGATTCAGGCA 680
DB 4329 CCTGTACATCTCATTTGGTTCTCGGATTCAGGATGCTTTCA 4365

Search completed: December 1, 2003, 07:37:13
Job time : 384 secs

Qy	404	ATGTGTAGCCGATGCCAAGGAACATAGAGGTTTGAAATGGACCCGGAACTTAAGAGT	463
Db	4994	ATGTGCAGCCGATGCCAAGGAACATAGAGGTTTGAAATGGACCCGGAACTTAAGAGT	5053
Qy	464	GCCAGATACTGTGCTGAGTGTAAATAGGCTGCATCCTGCTGAGGAAGAGAGACTTTTGGGCA	523
Db	5054	GCCAGATACTGTGCTGAGTGTAAATAGGCTGCATCCTGCTGAGGAAGAGTGACTTTTGGGCA	5113
Qy	524	GAGTCAAGCATGTTTGGGCCCTCAAGATCACCTACTCTTGCACTGTATGGATGGAAAGGTGTAT	583
Db	5114	GAGTCGAGCATGTTTGGGCCCTCAAAATCACCTACTCTTGCGGTGATGGATGGAAAGGTGTAT	5173
Qy	584	GACATCACAGATGGGCTGGATGCCAGCTGTAGGTATCTCCCCAGATACCCACAGAGTC	643
Db	5174	GATATCACAGATGGGCTGATGCCACGCTGTGGGAATCTCCCCAGATACCCACAGAGTC	5233
Qy	644	CCCTATCACATCTCATTTGGTTCTCGAATCCAGGCA	680
Db	5234	CCCTGTACATCTCATTTGGTTTACGGATGCGTTTCA	5270

RESULT 13
ABA95615
ID ABA95615 standard; DNA; 12734 BP.
XX
XX AC ABA95615;
XX
XX DT 21-MAR-2002 (first entry)
XX
XX Chimeric BVDV/HCV NS3-wt sequence.
XX
XX KW Pestivirus; Npro; protease; NS3; screening; ds.
XX
XX OS Chimeric - Bovine viral diarrhoea virus.
XX
XX OS Chimeric - Hepatitis C virus.
XX
XX PN US6326137-B1.
XX
XX PD 04-DEC-2001.
XX
XX PF 25-JUN-1999; 99US-0344456.
XX
XX PR 25-JUN-1999; 99US-0344456.
XX
XX (SCHE) SCHERING CORP.
XX
XX PA Hong Z, Lai VCH, Lau JYN;
XX
XX PI WPI; 2002-121103/16.
XX
XX DR

Qy	404	ATCTGTAGCCGATGCCAAGGAAAGCATAGGAGGTTTGAATGGACCGGGAACCTAAGAGT	453
Db	5150	ATCTGCAGCCGATGCCAGGAAAGCATAGGAGTTTGAATGGACCGGGAACCTAAGAGT	5209
Qy	464	GCCAGATACTGTGCTGAGTGTATAGGCTGCATCCTGCTGAGGAAGAGACACTTTTGGGCA	523
Db	5210	GCCAGATACTGTGCTGAGTGTATAGGCTGCATCCTGCTGAGGAAGTGACTTTTGGGCA	5269
Qy	524	GAGTCAAGCATGTTGGGCTCAAGATCACCTACTTTTGCACCTGATGATGAAAGGTGTAT	583
Db	5270	GAGTCAGCATGTTGGGCTCAAAATCACCTACTTTTGCCTGATGATGAAAGGTGTAT	5329
Qy	584	GACATCACAGATGGGCTGGATGCCACGCTGTAGGTATCTCCCCAGATACCCACAGATC	643
Db	5330	GATATCACAGATGGGCTGGATGCCACGCTGTGGGAATCTCCCCAGATACCCACAGATC	5389
Qy	644	CCCTATCATCATCTATTTGGTTCTCGGATCCAGGCA	680
Db	5390	CCCTTGTCAATCTCATTTGGTTTACCGGATGCCTTTTCA	5426

RESULT 14

AA236203
ID AA236203 standard; DNA; 12842 BP.
XX
XX AC AA236203;
XX
XX AC
XX
XX 11-FEB-2000 (first entry)
XX
XX
XX Nucleotide sequence of the prototype HCV-BVDV chimera.
DE
DE
XX Pseudorevertant; RNA virus; chimera; BVDV; HCV; replication-competent;
XX 5' nontranslated region; 5'NTR; 3' NTR; pestivirus; antiviral;
XX bovine viral diarrhea virus; NADL; vaccine; ss.
XX
XX
OS Chimeric - Hepatitis C virus.
OS Chimeric - Bovine viral diarrhea virus.
OS
XX WO955366-A1.
XX
XX
XX 04-NOV-1999.
XX
XX
XX 23-APR-1999; 99WO-US08850.
XX
XX
XX 24-APR-1998; 98US-0082964.
PR
XX
XX (UNIW) UNIV WASHINGTON.
XX
XX Rice CM, Prolov I, McBride MS;
PI
XX WPI; 2000-013959/01.
XX
XX Chimeric viral RNA, used in vaccine against BVDV -
XX
XX Example 5; Fig 19; 108pp; English.
XX
XX The present sequence represents the prototype Hepatitis C virus
CC (HCV)-bovine viral diarrhea virus (BVDV) chimeric virus of the
CC invention. The sequence contains the adapted HCV 5'NTR from
CC 5'NTR/R.3ori and tandem 3'NTR elements from HCV followed by BVDV.
CC The specification describes chimeric viral RNA comprising a
CC 5' nontranslated region (5'NTR); an open reading frame (ORF) region;
CC and a 3' NTR; where at least one of the regions is chimeric and
CC comprises a nucleotide sequence from a pestivirus in operable linkage
CC with a heterologous nucleotide sequence, preferably from HCV. The
CC chimeric viral RNA is replication-competent. The chimeric viral RNA
CC can be used in a method for identifying compounds having antiviral
CC activity against HCV. When the pestivirus viral nucleotide sequence is
CC from bovine viral diarrhea virus (BVDV), the chimeric viral RNA can be
CC used in a vaccine against BVDV.
XX
XX Sequence 12842 BP: 4034 A; 2612 C; 3282 G; 2914 T; 0 other;

RESULT 11	
AAAC86936	
ID	AAAC86936 standard; DNA; 12119 BP.
AC	
XX	
AC	AAAC86936;
XX	
DT	02-APR-2001 (first entry)
XX	
DE	Nucleotide sequence of a chimeric BVDV/HCV virus.
XX	
OS	Chimeric virus; bovine viral diarrhoea virus; BVDV; hepatitis C virus;
KW	HCV; vaccine; viral inhibitor; antiviral; ss.
KW	
XX	
OS	Synthetic.
OS	Bovine viral diarrhoea virus.
OS	Hepatitis C virus.
XX	
FH	Key
CDS	Location/Qualifiers
FT	386..11893
FT	/*tag= a
FN	WO200075352-A2.
XX	
PD	14-DEC-2000.
XX	
XX	02-JUN-2000; 2000WO-US15527.
XX	
XX	04-JUN-1999; 99US-0137817.
XX	
PA	(USSH) US DEPT HEALTH & HUMAN SERVICES.
XX	
PI	Nam J, Bukh J, Emerson SU, Purcell RH;
XX	
XX	WPI: 2001-071081/08.
DR	P-PSDB; AAB31167.
XX	
XX	New nucleic acid comprising a chimeric bovine viral diarrhoea virus
PT	genome in which the (non-)structural region has been replaced by
PT	hepatitis C virus (HCV) genome useful for treating or preventing HCV
PT	signs and symptoms .
XX	
PS	Disclosure; Page 62-66; 97pp; English.
XX	
CC	The specification describes a nucleic acid comprising a chimeric virus
CC	genome, specifically bovine viral diarrhoea virus (BVDV) genome in which
CC	the (non-)structural region has been replaced by the (non-)structural
CC	region of a hepatitis C virus (HCV) genome. The nucleic acids comprising
CC	the chimeric virus and the chimeric virus are useful for identifying
CC	cell lines capable of supporting the replication of these chimeric
CC	viruses, in screening for neutralizing antibodies to HCV of different
CC	genotypes, in the production of HCV-BVDV virions, for the development
CC	of inactivated or attenuated vaccines to prevent HCV-BVDV in a mammal,
CC	in studying the molecular properties of HCV indirectly in vitro, and in
CC	identifying inhibitors of viral enzyme activity which would be useful
CC	as antiviral agents. Formulations or compositions comprising the
CC	chimeric virions may be used to treat or prevent the signs and symptoms
CC	of HCV. The present sequence represents a chimeric nucleic acid of the
XX	invention.
XX	
SQ	Sequence 12119 BP; 3589 A; 2668 C; 3211 G; 2651 T; 0 other;
Query Match	21.9%; Score 251.4; DB 22; Length 12119;
Best Local Similarity	94.2%; Pred. No. 3.2e-66;
Matches	261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY	404 ATGTGTAGCGCGATGCCAAGCAAGCATAGGAGTTTGAATGACCGGAACTTAGAGT 463
DB	4535 ATGTGAGCGCGATGCCAAGCAAGCATAGGAGTTTGAATGACCGGAACTTAGAGT 4594
QY	464 GCACAGACTGTGCTGAGTGTAATAGGCTGCATCTCTGTCGAGGAAGACATTTTGGGCA 523
DB	4595 GCCAGATACTGTGCTGAGTGTAATAGGCTGCATCTCTGTCGAGGAAGTGTACATTTGGGCA 4654

QY	524 GAGTCAAGCATGTTGGGCCTCAAGATCACCTACTTTGCACTGATGGATGGAAGGTGTAT 583
DB	4655 GAGTCGAGCATGTTGGGCCTCAAAATCACCTACTTTGGCTGATGGATGGAAGGTGTAT 4714
QY	584 GACATCACAGAGTGGGCTGGATGCCAGCGTGTAGGTATCTCCCCAGATACCCACAGAGTC 643
DB	4715 GATATCACAGAGTGGGCTGGATGCCAGCGTGTGGGAATCTCCCCAGATACCCACAGAGTC 4774
QY	644 CCCTATCACATCTCATTTTGGTTCTCGGATTCAGGCA 680
DB	4775 CCTGTGCATCTCATTTTGGTTCTCGGATTCAGGCA 4811
RESULT 12	
AAZ36196	
ID	AAZ36196 standard; cDNA; 12578 BP.
XX	
AC	AAZ36196;
XX	
DT	11-FEB-2000 (first entry)
XX	
DE	Nucleotide sequence of infectious BVDV NADL protein.
XX	
KW	Pseudorevertant; RNA virus; chimera; BVDV; HCV; replication-competent;
KW	5' nontranslated region; 5'NTR; 3' NTR; pestivirus; antiviral;
KW	bovine viral diarrhoea virus; NADL; vaccine; ss.
XX	
OS	Bovine viral diarrhoea virus.
XX	
FH	Key
CDS	Location/Qualifiers
FT	386..12352
FT	/*tag= a
FT	/product= "NADL protein"
XX	
PN	WO9955366-A1.
XX	
PD	04-NOV-1999.
XX	
PF	23-APR-1999; 99WO-US08850.
XX	
PR	24-APR-1998; 98US-0082964.
XX	
PA	(UNIW) UNIV WASHINGTON.
XX	
PI	Rice CM, Frollov I, McBride MS;
XX	
DR	WPI: 2000-013359/01.
DR	P-PSDB; AAY53616.
XX	
PT	Chimeric viral RNA, used in vaccine against BVDV .
XX	
PS	Disclosure; Fig 11; 108pp; English.
XX	
CC	The present sequence encodes the NADL protein of bovine viral diarrhoea
CC	virus (BVDV). The sequence is used in the course of the invention, to
CC	produce chimeric RNA viruses. The specification describes chimeric viral
CC	RNA comprising a 5' nontranslated region (5'NTR); an open reading frame
CC	(ORF) region; and a 3' NTR; where at least one of the regions is chimeric
CC	and comprises a nucleotide sequence from a pestivirus in operable linkage
CC	with a heterologous nucleotide sequence, preferably from HCV. The
CC	chimeric viral RNA is replication-competent. The chimeric viral RNA
CC	can be used in a method for identifying compounds having antiviral
CC	activity against HCV. When the pestivirus viral nucleotide sequence is
CC	from bovine viral diarrhoea virus (BVDV), the chimeric viral RNA can be
CC	used in a vaccine against BVDV.
XX	
SQ	Sequence 12578 BP; 4049 A; 2527 C; 3233 G; 2769 T; 0 other;
Query Match	21.9%; Score 251.4; DB 21; Length 12578;
Best Local Similarity	94.2%; Pred. No. 3.2e-66;
Matches	261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

17-JAN-2001; 2001WO-US01386.
12-SEP-2000; 2000US-232104P.
(HUMA-) HUMAN GENOME SCI INC.
Rosen CA, Komatsoulis GA, Baker KP, Birse CE, Soppet DR, Olsen HS, Moore PA, Wei P, Ebner R, Duan DR, Shi Y, Choi GH, Fiscella M, Ni J;
WPI; 2002-358041/30.
P-PSDB; ABB77045.
New nucleic acid molecules encoding 22 human secreted proteins for diagnosing or treating e.g. autoimmune diseases, hyperproliferative disorders, and cardiovascular disorders, and used as food additives or preservatives -
Disclosure; Page 466-467; 526pp; English.
The sequence represents a cDNA sequence of the invention, isolated from human clone ID HNP82. The invention relates to novel isolated nucleic acid molecules encoding 22 human secreted proteins. The proteins of the invention have immunosuppressive, antiarthritic, antirheumatic, antiproliferative, cytostatic, cardiant, vasotropic, cerebroprotective, neurotropic, neuroprotective, antibacterial, virucide, fungicide, ophthalmological, and vulnary activity. The polynucleotides may have a use in gene therapy. The polynucleotides and polypeptides encoded by them are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. The polynucleotides and polypeptides are also used in diagnosing a pathological condition or susceptibility to a pathological condition. The antibodies to the proteins can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent assays (ELISA). Disorders which are diagnosed or treated include autoimmune diseases, hyperproliferative disorders, cardiovascular disorders, cerebrovascular

CC	bacteria, viruses and fungi and ocular disorders. The polypeptides can
CC	also be used to aid wound healing and epithelial cell proliferation. The
CC	polypeptides can also be used as a food additive or preservative.
XX	
SQ	Sequence 884 BP; 187 A; 178 C; 291 G; 228 T; 0 other;
	Query Match 23.8%; Score 272.8; DB 24; Length 884;
	Best Local Similarity 95.6%; Pred. No. 1.9e-73;
	Matches 302; Conservative 0; Mismatches 12; Indels 2; Gaps 2;
QY	1 GCCTTGGGTCAAGCAGCAATTAATAGGAGGGGAATGACCTGTAGCTAGTGGCGCTA 60
Db	562 GCCTTGGGTCAAGCAGCAATTAATAGGAGGGGAATGACCTGTAGCTAGTGGCGCTA 621
QY	61 CTGCCAGCCTGAAGAGGAAGTGCTCGACTCTTTGACCATGGCTGGGTTCTCTGAGGATGA 120
Db	622 CTGCCAGCCTGAAGAGGAAGTGCTCGACTCTTTGACCATGGCTGGGTTCTCTGAGGATGA 681
QY	121 GCTAAACCTTTTCCATGTACTGGGGTTGAGGCCACAGCATCAGATGTTGAACCTGAAGAA 180
Db	682 GCTAAACCTTTTCCATGTACTGGGGTTGAGGCCACAGCATCAGATGTTGAACCTGAAGAA 741
QY	181 GSCCTATAGACAGCTGGCAGTGATGGTTTCATCTGACAAAAATCATCATCCCGGGCTGA 240
Db	742 GSCCTATAGACAGCTGGCAGTGATGGTTTCATCTGACAAAAATCATCATCCCGGGCTGA 801
QY	241 GGAGGCGCTTCAAGG-TTTTGGCAGCAGCTT- GGGACATTGTCTAGCAATGCTGAAAAAGCGA 298
Db	802 GGAGGCGCTTCAAGGTTTTTTCGAGCAGCTTGGGGCATTGTCAGCAATGCTGAAAAAGCG 861
QY	299 AAGGAGTATGAGATGA 314
Db	862 AAAGGAGTATGGAGA 877

PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226275.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234597.
PR 25-SEP-2000; 2000US-0234598.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 17-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0251989.
PR 06-DEC-2000; 2000US-0256719.
PR 08-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251858.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251989.
PR 11-DEC-2000; 2000US-0251990.
PR 05-JAN-2001; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX WPI; 2001-465570/50.
XX
PT Isolated nucleic acid molecule encoding a reproductive system antigen
XX is used in preventing, treating or ameliorating a medical condition -
PS Disclosure; SEQ ID NO 8949; 1297pp + Sequence Listing; English.
XX
CC The present invention provides the protein and coding sequences of a
CC number of human reproductive system related antigens. These can be used
CC in the prevention and treatment of reproductive system disorders,
CC including cancer. The present sequence is a genomic sequence encoding a
CC protein of the invention.

PR	08-NOV-2000;	2000US-0246478.	CC	and neurological disorders (Alzheimer's disease and Parkinson's disease),
PR	08-NOV-2000;	2000US-0246523.	CC	endocrine disorders (Addison's disease), gastrointestinal disorders
PR	08-NOV-2000;	2000US-0246524.	CC	(inflammatory disorders), liver disorders (biliary liver cirrhosis),
PR	08-NOV-2000;	2000US-0246525.	CC	pancreatic and gall bladder disorders, disorders of the large intestine,
PR	08-NOV-2000;	2000US-0246526.	CC	developmental and inherited disorders, diseases at the cellular level,
PR	08-NOV-2000;	2000US-0246527.	CC	and wound healing and epithelial cell proliferation. (I) or (II) is
PR	08-NOV-2000;	2000US-0246528.	CC	useful to prevent skin aging, for preventing hair loss, to maintain
PR	08-NOV-2000;	2000US-0246532.		
PR	08-NOV-2000;	2000US-0246609.		
PR	08-NOV-2000;	2000US-0246610.		
PR	08-NOV-2000;	2000US-0246611.		
PR	08-NOV-2000;	2000US-0246613.		
PR	17-NOV-2000;	2000US-0249207.		
PR	17-NOV-2000;	2000US-0249208.		
PR	17-NOV-2000;	2000US-0249209.		
PR	17-NOV-2000;	2000US-0249210.		
PR	17-NOV-2000;	2000US-0249211.		
PR	17-NOV-2000;	2000US-0249212.		
PR	17-NOV-2000;	2000US-0249213.		
PR	17-NOV-2000;	2000US-0249214.		
PR	17-NOV-2000;	2000US-0249215.		
PR	17-NOV-2000;	2000US-0249216.		
PR	17-NOV-2000;	2000US-0249217.		
PR	17-NOV-2000;	2000US-0249218.		
PR	17-NOV-2000;	2000US-0249244.		
PR	17-NOV-2000;	2000US-0249245.		
PR	17-NOV-2000;	2000US-0249264.		
PR	17-NOV-2000;	2000US-0249265.		
PR	17-NOV-2000;	2000US-0249297.		
PR	17-NOV-2000;	2000US-0249299.		
PR	17-NOV-2000;	2000US-0249300.		
PR	01-DEC-2000;	2000US-0250160.		
PR	01-DEC-2000;	2000US-0250391.		
PR	03-DEC-2000;	2000US-0251030.		
PR	05-DEC-2000;	2000US-0251988.		
PR	05-DEC-2000;	2000US-0256719.		
PR	06-DEC-2000;	2000US-0251479.		
PR	08-DEC-2000;	2000US-0251856.		
PR	08-DEC-2000;	2000US-0251868.		
PR	08-DEC-2000;	2000US-0251869.		
PR	08-DEC-2000;	2000US-0251989.		
PR	08-DEC-2000;	2000US-0251990.		
PR	11-DEC-2000;	2000US-0254097.		
PR	05-JAN-2001;	2001US-0259678.		
XX				
PA	(HUMA-) HUMAN GENOME SCI INC.			
XX				
PI	Rosen CA, Barash SC, Ruben SM;			
XX				
XX	WPI; 2001-476223/51.			
DR				
XX				
PT	Novel isolated prostate gland related polypeptide useful for diagnosis			
PT	and treatment of disorders of prostate such as prostatodystonia,			
PT	prostatosis, prostatitis, benign prostatic hypertrophy and malacoplakia			
PT	-			
XX				
PS	Claim 1; SEQ ID No 339; 512pp; English.			
XX				
CC	The invention relates to novel isolated prostate gland related nucleic			
CC	acids (I) and polypeptides (II). (I) and (II) are useful for diagnosis,			
CC	prognosis, prevention, and/or treatment of diseases and/or disorders of			
CC	the prostate such as acute non-bacterial prostatitis, chronic non-			
CC	bacterial prostatitis, acute bacterial prostatitis, prostatodystonia,			
CC	prostatosis, granulomatous prostatitis, malacoplakia, benign prostatic			
CC	hypertrophy or hyperplasia, and prostate neoplastic disorders, including			
CC	adenocarcinomas, transitional cell carcinomas, ductal carcinomas, and			
CC	squamous cell carcinomas. (I), (II) and antibody to (I) are useful for			
CC	diagnosing and treating reproductive system disorders (Paget's disease),			
CC	autoimmune disorders (systemic lupus erythematosus, rheumatoid			
CC	arthritis), blood-related disorders (sickle cell anaemia),			
CC	hyperproliferative disorders, urinary system disorders			
CC	(glomerulonephritis), cardiovascular disorders (arrhythmias),			
CC	respiratory disorders, musculoskeletal system disorders, neural activity			

Query Match	39.5%;	Score 453;	DB 22;	Length 7453;
Best Local Similarity	100.0%;	Pred. No. 1.5e+128;		
Matches 453;	Conservative	0;	Mismatches	0;
Indels	0;	Gaps	0;	
QY	695	AGAGCCACCCAGATGCCCTCTCTGCTGATCTTTCAGGATTTCTTTCAGTGGATCTTTCAA	754	
DB	3315	AGAGCCACCCAGATGCCCTCTCTGCTGATCTTTCAGGATTTCTTTCAGTGGATCTTTCAA	3374	
QY	755	GTACCCCGAGGCGAGATGCCCAATGGAACTTCTTTGACAGCTCTCTAGCCCTGCCCTGGA	814	
DB	3375	GTACCCCGAGGCGAGATGCCCAATGGAACTTCTTTGACAGCTCTCTAGCCCTGCCCTGGA	3434	
QY	815	GCCGCTGCAGCCTTAAGCCCAACACACACAGTACCCAGGAGGAGGAGGAGGAGGAGGAGG	874	
DB	3435	GCCGCTGCAGCCTTAAGCCCAACACACAGTACCCAGGAGGAGGAGGAGGAGGAGGAGG	3494	
QY	875	CGAAGAAAGTGAAGGAGGCGCTTCCCAACGTTGATGCCCTTCTTTTCTCAATCAATG	934	
DB	3495	CGAAGAAAGTGAAGGAGGCGCTTCCCAACGTTGATGCCCTTCTTTTCTCAATCAATG	3554	
QY	935	TCAGGAGTCAAAAGGGCTGTAGCAGAGTGGAGTTGATTTATCCCTCTCTCCCAAC	994	
DB	3555	TCAGGAGTCAAAAGGGCTGTAGCAGAGTGGAGTTGATTTATCCCTCTCTCCCAAC	3614	
QY	995	ACCTAGAACTGAATCTTTTCTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT	1054	
DB	3615	ACCTAGAACTGAATCTTTTCTTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT	3674	
QY	1055	GCTGGAGTGCAGTGGTGTGATCTCAGCTTACTGCAACCTCTGTCTCCGGGTTCAAGCA	1114	
DB	3675	GCTGGAGTGCAGTGGTGTGATCTCAGCTTACTGCAACCTCTGTCTCCGGGTTCAAGCA	3734	
QY	1115	TTCTCCCATCTCAGCTCTCTGAGTAGTGGAT	1147	
DB	3735	TTCTCCCATCTCAGCTCTCTGAGTAGTGGAT	3767	
RESULT 9				
AAAL06261				
ID	AAAL06261	standard; DNA; 7453 BP.		
XX				
AC	AAAL06261;			
XX				
DT	21-NOV-2001	(first entry)		
XX				
DE	Human reproductive system related antigen DNA SEQ ID NO: 8949.			
XX				
KW	Human; reproductive system related antigen; reproductive system disorder;			
KW	cancer; gene therapy; ds.			
XX				
OS	Homo sapiens.			
XX				
PN	WO200155320-A2.			
XX				
PD	02-AUG-2001.			
XX				
PF	17-JAN-2001; 2001WO-US01339.			
XX				
PR	31-JAN-2000; 2000US-0179065.			
PR	04-FEB-2000; 2000US-0180628.			
PR	24-FEB-2000; 2000US-0184664.			
PR	02-MAR-2000; 2000US-0186350.			
PR	16-MAR-2000; 2000US-0189874.			
PR	17-MAR-2000; 2000US-0190076.			
PR	18-APR-2000; 2000US-0198123.			

Db 397 CTGAGGAGGAGACTTTTGGGACAGTCAAGCATGTTGGGCTCAAGATCACCTACTTTG 456
Qy 561 CACTGATGGATGGAAGGTGTATGACATCAGAGTGGGCTGGATGCCAG-CGTGTAGGT 619
Db 457 CACTGATGGATGGAAGGTGTATGACATCAGAGTGGGCTGGATGCCAGCGTGTAGGT 516
Qy 620 ATCTCCGAGATACCCAGAGTCCCTATCACATCTCATTTGTTCTCGGATTCACAGGC 679
Db 517 ATCTCCGAGATACCCAGAGTCCCTATCACATCTCATTTGTTCTCGGATTCACAGGC 576
Qy 680 ACCAGAGGGGGAGAGAGCCACCCAGATGCCCTCTGCTGATCTTCAGGATTTCTTG 739
Db 577 ACCAGAGGGGGAGAGAGCCACCCAGATGCCCTCTGCTGATCTTCAGGATTTCTTG 636
Qy 740 AGTCGGATCTTCAAGTACCCCGAGGAGATGCCCAATGGGAATCTTTTGCAGCTCCT 799
Db 637 AGTCGATCTTCAAGTACCCCGAGGAGATGCCCAATGGGAATCTTTTGCAGCTTCT 696
Qy 800 CAGCTGCCC 809
Db 697 AACCTGCCC 706

RESULT 8
AAS30481
ID AAS30481 standard; DNA; 7453 BP.
XX AC AAS30481;
XX DT
XX 21-NOV-2001 (first entry)
DE DNA encoding novel prostate gland antigen, Seq ID No 339.
XX
KW Human; nontropic; neuroprotective; cytostatic; antiparkinsonian;
KW antianemic; dermatological; immunosuppressive; antiinflammatory;
KW antiarthritic; antirheumatic; virucide; hepatotropic; nephrotropic;
KW osteopathic; prostate gland; prostatitis; adenocarcinoma; hair loss;
KW prostatosis; malacoplakia; adenocarcinoma; benign prostatic hypertrophy;
KW hyperplasia; carcinoma; prostate neoplastic disorder; skin aging;
KW reproductive system disorder; autoimmune disorder; urinary system;
KW systemic lupus erythematosus; rheumatoid arthritis; cardiovascular;
KW blood-related disorder; hyperproliferative disorder; respiratory;
KW neurological disorder; endocrine disorder; inflammatory disorder;
KW liver disorder; wound healing; food preservative; ds.
XX
OS Homo sapiens.
XX
PN W0200155447-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01330.
XX
XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184654.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216680.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.

PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225277.
PR 14-AUG-2000; 2000US-0225277.
PR 14-AUG-2000; 2000US-0225278.
PR 14-AUG-2000; 2000US-0225279.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0238935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 01-NOV-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.

CC inflammations (e.g. bacterial or viral meningitis or encephalitis),
CC testicular disorders (e.g. nontuberculous granulomatous orchitis),
CC connective tissue disorders, or heart disorders (e.g. ischaemic heart
CC disease or atherosclerosis). The compositions and methods may also be
CC used in assessing the histological type of neoplasm associated with
CC ovarian cancer, monitoring the progression of ovarian cancer,
CC determining whether ovarian cancer has metastasized or is likely to
CC metastasize, selecting a composition for inhibiting ovarian cancer,
CC assessing the ovarian carcinogenic potential of a compound, or
CC inhibiting ovarian cancer or at risk of developing ovarian cancer. The
CC present nucleic acid sequence encodes one of the ovarian cancer markers
CC described in the invention.

XX
SQ Sequence 754 BP; 193 A; 185 C; 200 G; 176 T; 0 other;

Query Match 64.8%; Score 743; DB 24; Length 754;
Best Local Similarity 99.9%; Pred. No. 1.4e-218;
Matches 754; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 301 GGAGTATGAGATGAACGAAATGGCAGAGAAATGAGCTGAGCGGTGAGTAAATGAGTTTCT 360
Db |||||
QY 361 GTCCAAGCTCAAGATGACCTCAAGAGGGAATGAATACTATGATGTGTAGCGGATGCCA 420
Db |||||
QY 61 GTCCAAGCTCAAGATGACCTCAAGAGGGAATGAATACTATGATGTGTAGCGGATGCCA 120
QY 421 AGGAAGCATGAGGAGTTTGAATGACCGGAGACCTAAGAGTGCAGATACGTGCTGA 480
Db |||||
QY 121 AGGAAGCATGAGGAGTTTGAATGACCGGAGACCTAAGAGTGCAGATACGTGCTGA 180
QY 481 GTGTAATAGGCTGATCTCTGCTGAGGAAGGAGAGCTTTTGGGCAGAGTCAAGCATGTTGGG 540
Db |||||
QY 181 GTGTAATAGGCTGATCTCTGCTGAGGAGGAGAGCTTTTGGGCAGAGTCAAGCATGTTGGG 240
QY 541 CCTCAAGATCACTACTTTGCACTGATGGATGGAAGGTTATGACATCAAGAGTGGG 600
Db |||||
QY 241 CCTCAAGATCACTACTTTGCACTGATGGATGGAAGGTTATGACATCAAGAGTGGG 300
QY 601 TGATGCCAGCTGTAGGTATCTCCAGATACCCAGAGTCCCTATCAGATCTCAAT 660
Db |||||
QY 301 TGGATGCCAGCTGTAGGTATCTCCAGATACCCAGAGTCCCTATCAGATCTCAAT 360
QY 661 TGGTTCTCGGATTCAGGACACAGAGGCGGAGAGGCCACCCAGATGCCCTCTCTGC 720
Db |||||
QY 361 TGGTTCTCGGATTCAGGACACAGAGGCGGAGAGGCCACCCAGATGCCCTCTCTGC 420
QY 721 TGATCTTCAGGATTTCTTGAGTGGATCTTTCAAGTACCCCGGAGATGCCCAATGG 780
Db |||||
QY 421 TGATCTTCAGGATTTCTTGAGTGGATCTTTCAAGTACCCCGGAGATGCCCAATGG 479
QY 781 GAACTTTCTTGAGCTCCTCAGCTGCGCTGCGCTGAGCGGCTGCGAGCTCTAAGCCCAACAG 840
Db |||||
QY 480 GAACTTTCTTGAGCTCCTCAGCTGCGCTGCGCTGAGCGGCTGCGAGCTCTAAGCCCAACAG 539
QY 841 CACAGTACCAAGGAGAGCCAAACCTAAGCGCGGAGAAAGTGAAGAGGCGCTTCCA 900
Db |||||
QY 540 CACAGTACCAAGGAGAGCCAAACCTAAGCGCGGAGAAAGTGAAGAGGCGCTTCCA 599
QY 901 ACCTTCATGCGCTTCTCTTCTCTCAATCAATGTCAGGAGTCAAGAGGCGGTAGCAC 960
Db |||||
QY 600 ACCTTCATGCGCTTCTCTTCTCTCAATCAATGTCAGGAGTCAAGAGGCGGTAGCAC 659
QY 961 AGGATGGAGTTGATTTATCCCTCTCTCCCAACACCTAGGAACTGAAATCTTTTCTTTT 1020
Db |||||
QY 660 AGGATGGAGTTGATTTATCCCTCTCTCCCAACACCTAGGAACTGAAATCTTTTCTTTT 719
QY 1021 TATTTTTCAGATGGAGTCTTGCTCTGTGTTGCCAG 1055
Db |||||
QY 720 TATTTTTCAGATGGAGTCTTGCTCTGTGTTGCCAG 754

AAI96802
ID AAI96802 standard; cDNA; 747 BP.
XX
AC AAI96802;
XX
DT 13-NOV-2001 (first entry)
XX
DE Human neuroblastoma expressed polynucleotide SEQ ID NO 2877.
XX
KW Human; neuroblastoma; malignancy; cancer; tumour marker; N-myc; TrkA; ss.
XX
OS Homo sapiens.
XX
PN WO200166719-A1.
XX
PD 13-SEP-2001.
XX
PF 02-MAR-2001; 2001WO-JP01629.
XX
PR 07-MAR-2000; 2000JP-0159195.
XX
PA (CHIB-) CHIBA PREFECTURE.
XX
PA (HISM) HISAMITSU PHARM CO LTD.
XX
PI Nakagawara A;
XX
PI WPI; 2001-565584/63.
XX
DR Nucleic acids originating in gene expressed in human neuroblastoma,
XX useful as probe or primer in diagnosing prognosis of human
XX neuroblastoma, malignancy and susceptibility indicator or tumour marker
XX for anti-cancer agents -
XX
PS Claim 1; Page 2103; 2979pp; Japanese.
XX
CC The invention relates to novel genes (AAI93926-AAI97963) expressed in
XX human neuroblastoma. The nucleic acids are applicable as a probe or
XX primer in diagnosing the prognosis of human neuroblastoma, malignancy and
XX susceptibility indicators or tumour markers for anti-cancer agents. The
XX gene information for diagnosing prognosis is related to factors similar
XX to that for N-myc and TrkA genes.
XX
SQ Sequence 747 BP; 191 A; 167 C; 200 G; 165 T; 24 other;

Query Match 54.8%; Score 628.2; DB 22; Length 747;
Best Local Similarity 97.0%; Pred. No. 3.7e-183;
Matches 650; Conservative 0; Mismatches 19; Indels 1; Gaps 1;

QY 141 TGGGGTTTGGGCCACAGCATCAGATGTTGAACTGAAGAGGCTTATAGACAGCTGGCAG 200
Db |||||
QY 37 TGGGCACTCTTGGCCTACTGGCAGATGTTGAACTGAAGAGGCTTATAGACAGCTGGCAG 96
QY 201 TGATGGTTTCATCTGACAAAATCATATCCCGGCTGAGGAGGCTTCAAGGTTTGC 260
Db |||||
QY 97 TGATGGTTTCATCTGACAAAATCATATCCCGGCTGAGGAGGCTTCAAGGTTTGC 156
QY 261 GAGCAGCTTGGGACATTGTCAGCAATGCTGAAAAGCGAAAGGAGTATGAGATCAACGAA 320
Db |||||
QY 157 GAGCAGCTTGGGACATTGTCAGCAATGCTGAAAAGCGAAAGGAGTATGAGATCAACGAA 216
QY 321 TGGCAGAGAAATGAGCTGAGCCGGTCACTAAATGAGTTTCTGTCCAAAGCTGCAAGATGACC 380
Db |||||
QY 217 TGGCAGAGAAATGAGCTGAGCCGGTCACTAAATGAGTTTCTGTCCAAAGCTGCAAGATGACC 276
QY 381 TCAAGAGGCAATGAATACTATGATGTGTAGCCGATGCCAAGAAAGCATAGAGGTTTG 440
Db |||||
QY 277 TCAAGAGGCAATGAATACTATGATGTGTAGCCGATGCCAAGAAAGCATAGAGGTTTG 336
QY 441 AAATGAGCGGGAACCTAAGAGTGCAGATCTGTGCTGAGTGAATAGGCTGCATCTTG 500
Db |||||
QY 337 AAATGAGCGGGAACCTAAGAGTGCAGATCTGTGCTGAGTGAATAGGCTGCATCTTG 396
QY 501 CTGAGGAAGGAGACTTTTGGGCAGAGTCAAGCATGTGTGGGCTCAAGATCACTACTTTG 560

CC immunogen), binding partners of the polypeptides, a method for
CC identifying an agent useful in modulating mesenchymal cell
CC differentiation induction activity of a molecule, a method of diagnosing
CC a condition characterized by aberrant expression of a nucleic acid
CC molecule or its expression product; a method for determining regression,
CC progression or onset of cartilaginous tissue degeneration condition in a
CC subject characterized by aberrant expression of a nucleic acid molecule
CC or its expression product, a method for treating a cartilaginous tissue
CC degeneration condition, a method for treating a subject to reduce the
CC risk of cartilaginous tissue degeneration condition developing in the
CC subject, a method for identifying a candidate agent for treating a
CC cartilaginous tissue degeneration condition, and a solid-phase nucleic
CC acid molecule array consisting essentially of a set of nucleic acid
CC molecule as cited above (or known from known genes shown to be
CC differentially expressed in developing mesenchymal cells using the
CC technique of representational difference analysis, RDA), its expression
CC products or fragments, fixed to a solid substrate. The nucleic acids,
CC polypeptides and agents are useful for treating cartilaginous tissue
CC degeneration conditions such as osteoarthritis, rheumatoid arthritis,
CC gout arthritis, adjuvant arthritis, arthritis deformans, infectious
CC arthritis or osteochondrosis. The present sequence is a cDNA from
CC a known gene differentially expressed in developing mesenchymal cells.
XX
SQ Sequence 754 BP; 193 A; 185 C; 200 G; 176 T; 0 other;

Query Match 64.8%; Score 743; DB 24; Length 754;
Best Local Similarity 99.9%; Pred. No. 1.4e-218;
Matches 754; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 301 GGAGTATGAGTAAACGAATGCGAGAGAAATGAGCTGAGCGGTCTAGTAAATGAGTTCT 360
DB 1 GGAGTATGAGTAAACGAATGCGAGAGAAATGAGCTGAGCGGTCTAGTAAATGAGTTCT 60
QY 361 GTCACAGCTGACAGATGACCTCAAGGAGGCAATGAACTATCTATGATGTAGCCGATGCCA 420
DB 61 GTCACAGCTGACAGATGACCTCAAGGAGGCAATGAACTATCTATGATGTAGCCGATGCCA 120
QY 421 AGGAAAGCATAGGAGGTTTGAAATGACCGGACCTTAAGAGTCCAGATACCTGCTGA 480
DB 121 AGGAAAGCATAGGAGGTTTGAAATGACCGGACCTTAAGAGTCCAGATACCTGCTGA 180
QY 481 GTTAATAGCTGCATCTCTGCTGAGGAGGAGACTTTTGGCGAGAGTCAAGCATGTTGGG 540
DB 181 GTTAATAGCTGCATCTCTGCTGAGGAGGAGACTTTTGGCGAGAGTCAAGCATGTTGGG 240
QY 541 CTTCAAGATCAGTACTTTGCACTGATGTAAGAAAGGTGTATGATACACAGATGGGC 600
DB 241 CTTCAAGATCAGTACTTTGCACTGATGTAAGAAAGGTGTATGATACACAGATGGGC 300
QY 601 TGGATCCAGCGTGTAGGTATCTCCAGATACCCAGAGTCCCTATCATCTCAT 560
DB 301 TGGATCCAGCGTGTAGGTATCTCCAGATACCCAGAGTCCCTATCATCTCAT 360
QY 661 TGGTTCTCGGATTCAGGACAGAGGCGGAGAGGACCCAGATGCCCTCTCTGC 720
DB 361 TGGTTCTCGGATTCAGGACAGAGGCGGAGAGGACCCAGATGCCCTCTCTGC 420
QY 721 TGATCTTCAGGATTTCTTGAGTCGGATCTTTCAAGTACCCCGAGGAGATGCCCAATGG 780
DB 421 TGATCTTCAGGATTTCTTGAGTCGGATCTTTCAAGTACCCCGAGGAGATGCCCAATGG 479
QY 781 GAACCTTTCTTGAGCTCTCAGCTGCCCTGGAGCGGTGAGCTCTTAAGCCCAACAG 840
DB 480 GAACCTTTCTTGAGCTCTCAGCTGCCCTGGAGCGGTGAGCTCTTAAGCCCAACAG 539
QY 841 CACAGTACCCAGGAGGAGGACCAACCTTAAGCGGGAAGAAAGTGAGGAGGCCCTTCCA 900
DB 540 CACAGTACCCAGGAGGAGGACCAACCTTAAGCGGGAAGAAAGTGAGGAGGCCCTTCCA 599
QY 901 AGTTGATGCCCTCTCTTTCTCAATCAATGTACGGAGTCAAAAGGGGTGTAGCAC 960
DB 600 AGTTGATGCCCTCTCTTTCTCAATCAATGTACGGAGTCAAAAGGGGTGTAGCAC 659

QY 961 AGGATGGAGTTTGATTTATCCCTCCCTCCCAACACCTAGGAACCTGAAATCTTTTCTTT 1020
DB 660 AGGATGGAGTTTGATTTATCCCTCCCTCCCAACACCTAGGAACCTGAAATCTTTTCTTT 719
QY 1021 TATTTTTCAGATGGAGTCTTCTCTCTGTTGCCCGAG 1055
DB 720 TATTTTTCAGATGGAGTCTTCTCTCTGTTGCCCGAG 754

RESULT 6

ABS76460
ID ABS76460 standard; cDNA; 754 BP.
XX AC ABS76460;
DT 11-DEC-2002 (first entry)
XX DE cDNA encoding human ovarian cancer marker OV38.
XX Human; ovarian cancer; marker; cancer; familial history; brain disorder;
KW central nervous system disorder; bacterial meningitis; viral meningitis;
KW Alzheimer's disease; Parkinson's disease; cerebral oedema; hydrocephalus;
KW brain herniation; inflammation; encephalitis; testicular disorder;
KW nontuberculous granulomatous orchitis; connective tissue disorder;
KW heart disorder; ischaemic heart disease; atherosclerosis; neoplasm;
KW histological type; carcinogenic; ovarian cancer marker; gene; ss.
XX Homo sapiens.
OS WO200271928-A2.
XX PN 19-SEP-2002.
XX PD 14-MAR-2002; 2002WO-US07826.
XX PF 14-MAR-2001; 2001US-276025P.
XX PR 14-MAR-2001; 2001US-276025P.
PR 10-AUG-2001; 2001US-311732P.
PR 19-SEP-2001; 2001US-323580P.
PR 26-SEP-2001; 2001US-324967P.
PR 26-SEP-2001; 2001US-325102P.
PR 26-SEP-2001; 2001US-325149P.
XX (MILL-) MILLENNIUM PHARM INC.
XX PA Monahan JE, Gannavarapu M, Hoersch S, Kamatkar S, Kovatis SG;
PI Meyers RE, Morrissy MP, Olandt PJ, Sen A, Viefy PO, Mills GB;
PI Bast RC, Lu K, Schmandt RE, Zhao X, Glatt K,
XX WPI; 2002-723277/78.
DR P-PSDB; ABG96364.
DR XX
PT Assessing whether a patient is afflicted with ovarian cancer, useful in
PT assessing the stage or progression of the disease, comprises comparing
PT the expression level of a cancer marker in a sample from a patient and
PT from a non cancer patient -
XX Disclosure; Page 300; 481pp; English.
XX The present invention relates to a new method for assessing whether a
CC patient is afflicted with ovarian cancer. The method involves comparing
CC the expression level of a marker in a patient sample and the normal level
CC of expression of the marker in a control non-ovarian cancer sample, where
CC the marker is selected from 363 cancer markers described in the
CC specification. The method of the invention is useful in diagnosing or
CC characterising cancer, in detecting the presence of cancer as early as
CC possible, and the recurrence of ovarian cancer. The method may also be of
CC particular use with patients having an enhanced risk of developing
CC ovarian cancer (e.g. patients having a familial history of ovarian
CC cancer). The cancer markers may be used in the management and treatment
CC of e.g. brain and central nervous system disorders (e.g. bacterial and
CC viral meningitis, Alzheimer's disease or Parkinson's disease), brain
CC disorders (e.g. cerebral oedema, hydrocephalus or brain herniations),

PD 14-OCT-1999.
XX 29-MAR-1999; 99WO-US06831.
XX 03-APR-1998; 98US-0054956.
XX (CURA-) CURAGEN CORP.
XX Nandabalan K, Kingsmore S;
XX WPI; 1999-620203/53.
DR P-PSDB; AAY32126.
XX
PT Protein complexes, interacting proteins, and related polynucleotides
PT useful for treating and preventing e.g. atopic, autoimmune or
PT neurodegenerative diseases -
XX
PS Claim 21; Fig 7; 172pp; English.
XX
CC This is the nucleotide sequence of cDNA which codes for a novel
CC human LYST interacting protein, LIP6 (see AAY32126), that shows
CC homology to pestivirus Ns2-3. LYST is the human lysosomal
CC Chediak-Higashi syndrome (CHS) protein. The invention relates to
CC complexes of LYST or LYST-2 (see AAY32120) with proteins identified
CC as interacting with LYST or LYST-2 by a modified yeast two-hybrid
CC assay system. The interacting proteins include 10 novel proteins,
CC LIP1-10 (see AAY32121-30). Methods of screening the protein complexes
CC for efficacy in treating and/or preventing atopic diseases (e.g.
CC asthma, nasal polyps, hay fever rhinitis, urticaria) autoimmune
CC diseases (e.g. CHS, rheumatoid arthritis, systemic lupus
CC erythematosus, inflammatory bowel disease, diabetes mellitus,
CC multiple sclerosis), neurodegenerative disease, certain forms
CC of cancer, pigmentation disorders, platelet dysfunction and viral
CC diseases are provided. Nucleic acids (see AA234487-96) encoding
CC LIP1-10, modulation of LIP function by gene therapy, use of
CC antisense oligonucleotides for suppression of LIP protein
CC expression, screening for agonists and antagonists, diagnosing or
CC screening for the presence of a predisposition to a disease or
CC disorder, and animal models are also disclosed.
XX
SQ Sequence 754 BP; 193 A; 185 C; 200 G; 176 T; 0 other;

Query Match 54.8%; Score 743; DB 20; Length 754;
Best Local Similarity 99.9%; Pred. No. 1.4e-218;
Matches 754; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 301 GGAGTATGAGATCAACGATGCGAGAGATGAGTGGCGCTCAGTAATCAGTTCT 360
DB 1 GGAGTATGAGATGAAACGAATGCGAGAGATGAGTGGCGCTCAGTAATCAGTTCT 60

QY 361 GTCCAAAGCTCAAGATGACCTCAAGGAGGCAATGATCTATGATGTAGCCGATGCCA 420
DB 61 GTCCAAAGCTCAAGATGACCTCAAGGAGGCAATGATCTATGATGTAGCCGATGCCA 120

QY 421 AGGAAAGCATAGGAGTTGTAATGACCGGAACTTAAGATGCCAGATACCTGCTGA 480
DB 121 AGGAAAGCATAGGAGTTGTAATGACCGGAACTTAAGATGCCAGATACCTGCTGA 180

QY 481 GTGTAATAGCTGCATCTCTGCTGAGGAGGAGAGACTTTGGGAGAGTCAAGCATTTGGG 540
DB 181 GTGTAATAGCTGCATCTCTGCTGAGGAGGAGAGACTTTGGGAGAGTCAAGCATTTGGG 240

QY 541 CCTCAAGATCACCTACTTTGCACTGATGGATGAAAGGTTGATGACATCACAGAGTGGG 600
DB 241 CCTCAAGATCACCTACTTTGCACTGATGGATGAAAGGTTGATGACATCACAGAGTGGG 300

QY 601 TGGATGCCAGCGTGTAGTATCTCCACAGATACCCACAGATGCCCTATCATCTCAT 660
DB 301 TGGATGCCAGCGTGTAGTATCTCCACAGATACCCACAGATGCCCTATCATCTCAT 360

QY 661 TGGTTCTCGAATCCAGGACCAAGAGGGGGGAGAGGACCCAGATGCCCTCTCTGC 720
DB 361 TGGTTCTCGAATCCAGGACCAAGAGGGGGGAGAGGACCCAGATGCCCTCTCTGC 420

QY 721 TGATCTTCAGGATTTCTTGAGTCGGATCTTTCAAGTACCCCGAGGCGAGATGCCAATGG 780
DB 421 TGATCTTCAGGATTTCTTGAGTCGGATCTTTCAAGTACCCCGAGGCGAGATG-CCAATGG 479

QY 781 GAACTTCTTTGAGCTCCTCAGCTGCGCTGAGCGCGCTGAGCGCTCTAAGGCCAACAG 840
DB 480 GAACTTCTTTGAGCTCCTCAGCTGCGCTGAGCGCGCTGAGCGCTCTAAGGCCAACAG 539

QY 841 CACAGTACCCAGGAGAGCCAAACCTAAGCGCGGAGAAAGAAAGTGAGGAGGCGCTTCCA 900
DB 540 CACAGTACCCAGGAGAGCCAAACCTAAGCGCGGAGAAAGAAAGTGAGGAGGCGCTTCCA 599

QY 901 ACCTTCATGCGCT 960
DB 600 ACCTTCATGCGCT 659

QY 961 AGGATGGAGTTTGAATTTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1020
DB 660 AGGATGGAGTTTGAATTTATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 719

QY 1021 TATTTTGGAGTGGAGTCTTGCTCTGTTGCCAG 1055
DB 720 TATTTTGGAGTGGAGTCTTGCTCTGTTGCCAG 754

RESULT 5
ABX04184
ID ABX04184 standard; cDNA; 754 BP.
XX ABX04184;
AC ABX04184;
XX
DT 10-JAN-2003 (first entry)
XX
DE Human mRNA differentially expressed in mesenchymal cells #31.
XX
KW Human; ss; gene; skeletal growth; cartilage degeneration disorder;
KW chondroblastic phenotype; mesenchymal cell; cartilage formation;
KW bone formation; arthritis; osteoarthritis; rheumatoid arthritis;
KW gout arthritis; adjuvant arthritis; arthritis deformans; antigout;
KW infectious arthritis; osteochondrosis; RDA; antiarthritic; osteopathic;
KW antirheumatic; antiinflammatory; representational difference analysis.
XX
OS Homo sapiens.
XX
PN WC200271927-A2.
XX
PD 19-SEP-2002.
XX
PF 12-MAR-2002; 2002WO-US07787.
XX
PR 12-MAR-2001; 2001US-274980P.
XX
PA (BGHM) BRIGHAM & WOMENS HOSPITAL INC.
XX
PI Yates KE, Mizuno S, Glowacki J;
XX
XX WPI; 2002-723276/78.
XX
PT New nucleic acid molecules capable of promoting chondrogenesis, useful
PT for diagnosing and treating cartilaginous tissue degeneration
PT conditions, e.g. osteoarthritis, rheumatoid arthritis, gout arthritis,
PT or osteochondrosis -
XX
PS Claim 33; Page 129; 153pp; English.
XX
CC The invention relates to new isolated nucleic acid molecule comprising a
CC nucleic acid molecule consisting of a gene differentially expressed
CC in cells undergoing differentiation from mesenchymal cell to a
CC chondroblastic phenotype, or hybridising under stringent conditions
CC to them (or their fragments). Also included are expression vectors,
CC transformed host cells, expressed polypeptides or peptide fragments
CC (which induce differentiation of a mesenchymal cell and may be as an

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 1, 2003, 07:30:31 ; Search time 379 Seconds
(without alignments)
8169.539 Million cell updates/sec

Title: US-10-049-742-22

Perfect score: 1147

Sequence: 1 gccttgggtcaagcagaata.....gcctctgagtagctgggat 1147

Scoring table: IDENTITY NUC

Gapop 10*0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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 - 23: /SIDSI/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
 - 24: /SIDSI/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*
 - 25: /SIDSI/gcgdata/geneseq/geneseq-emb1/NA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1147	100.0	1147	22	AAF54994
2	1145.4	99.9	2279	24	ABL55088
3	1142.2	99.6	3286	24	ABL56700
4	743	64.8	754	20	AAZ34492
5	743	64.8	754	24	ABX04184
6	743	64.8	754	24	ABX76460
7	628.2	54.8	747	22	AAI96802
8	453	39.5	7453	22	AAI030481

9	453	39.5	7453	22	AAI06261	Human reproductive
10	272.8	23.8	884	24	ABL55114	Human cDNA sequenc
11	251.4	21.9	12119	22	AAC86936	Nucleotide sequenc
12	251.4	21.9	12578	21	AAZ36196	Nucleotide sequenc
13	251.4	21.9	12734	24	ABA95615	Chimeric BVDV/HCV
14	251.4	21.9	12842	21	AAZ36203	Nucleotide sequenc
15	251.4	21.9	13198	21	AAZ36211	Nucleotide sequenc
16	251.4	21.9	14078	21	AAA38807	Plasmid pBVDDN1, c
17	251.4	21.9	14578	21	AAZ48136	Bovine viral diarr
18	251.4	21.9	15065	21	AAZ36195	Nucleotide sequenc
19	251.4	21.9	16622	21	AAZ36212	Nucleotide sequenc
20	245.2	21.4	256	24	ABQ56856	Human colon cancer
21	239.4	20.9	11674	21	AAZ36210	Nucleotide sequenc
22	234.6	20.5	339	24	ABL85522	Human ovarian canc
23	145	12.6	2277	22	AAK68770	Human immune/haema
24	120	10.5	565	23	ABV60340	Human prostate exp
25	119	10.4	330	16	AAI24617	Human gene signatu
26	116.8	10.2	28001	24	ABS54410	Human hydroxymethy
27	116.8	10.2	28001	25	ABX93300	Gene encoding huma
28	116.4	10.1	3135	23	ABL25653	Drosophila melanog
29	115.6	10.1	1811	22	AAH14407	Human cDNA sequenc
30	115.6	10.1	3132	22	AAH18382	Human cDNA sequenc
31	113.6	9.9	498	24	ABK45936	cDNA encoding colo
32	113.2	9.9	4941	22	AAI98901	Human excretory re
33	113.2	9.9	4941	22	AAI63251	Human kidney relat
34	113.2	9.9	160820	25	ABO76573	Androgen receptor
35	112.8	9.8	2147	23	ABK42851	Genomic sequence #
36	112.8	9.8	32174	22	ABA15665	Human nervous syst
37	112.8	9.8	32174	22	ABA19477	Human nervous syst
38	112.8	9.8	32174	22	ABA20359	Human nervous syst
39	112.8	9.8	32174	22	ABA21505	Human nervous syst
40	112.8	9.8	32174	22	AAI36280	Human musculoskele
41	112.8	9.8	32174	22	AAS32855	Human genomic DNA
42	112.8	9.8	32174	22	AAS34394	Human DNA for a no
43	112.8	9.8	32174	22	AAS30638	DNA encoding novel
44	112.8	9.8	32174	22	AAI03792	Human reproductive
45	112.8	9.8	32174	22	AAI07447	Human reproductive

ALIGNMENTS

RESULT 1

AAF54994
ID AAF54994 standard; DNA; 1147 BP.

XX AAF54994;

XX AAF54994;

DT 15-MAY-2001 (first entry)

XX Nucleotide sequence of a human chaperone polypeptide.

DE Human; chaperone polypeptide; reproductive disease; prolactin production;
KW infertility; tumour; cancer; Peyronie's disease; eye disorder; Glaucoma;
KW conjunctivitis; keratitis; neuromuscular disorder; cystic fibrosis;
KW metabolic disorder; Zellweger syndrome; Addison's disease; Iritis;
KW autoimmune disorder; inflammatory disorder; systemic lupus erythematosus;
KW acquired immunodeficiency syndrome; AIDS; asthma; atherosclerosis;
KW cell proliferative disorder; gene therapy; ss.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 98..907

FT /tag= a

FT /product= "chaperone protein"

XX W0200109178-A2.

XX 08-FEB-2001.

XX 03-AUG-2000; 2000WO-US21313.

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OM nucleic - nucleic search, using sw model

Run on: December 1, 2003, 07:30:31 ; Search time 90 Seconds

(without alignments)

5625.183 Million cell updates/sec

Title: US-10-049-742-22

Perfect score: 1147

Sequence: 1 gccttgggttaagcagaata.....gcctcctgagtagctggat 1147

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 5: /cgn2_6/ptodata/2/ina/PCITUS_COMB.seq.*
- 6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	251.4	21.9	12734	4	US-09-344-456-1
2	251.4	21.9	14078	3	US-09-433-262-1
3	251.4	21.9	14078	4	US-09-702-330-1
4	251.4	21.9	14578	3	US-08-859-894-1
C 5	116.8	10.2	28001	4	US-09-819-993-3
6	112.4	9.8	174493	4	US-09-804-471A-3
C 7	110.4	9.6	43069	4	US-09-292-542A-1
8	109.8	9.6	74962	4	US-09-685-853A-3
C 9	107	9.3	955	4	US-09-641-638-4
C 10	107	9.3	955	4	US-09-641-638-5
C 11	107	9.3	955	4	US-09-641-638-6
C 12	107	9.3	955	4	US-09-641-638-7
C 13	107	9.3	1000	4	US-09-641-638-650
C 14	106	9.2	2871	4	US-09-489-847-111
C 15	106	9.2	2876	4	US-09-489-847-22
C 16	106	9.2	43950	4	US-09-735-934A-3
C 17	106	9.2	43950	4	US-10-060-332-3
C 18	106	9.2	174493	4	US-09-804-471A-3
C 19	105.2	9.2	31208	4	US-09-852-067-3
C 20	104.8	9.1	2839	3	US-08-468-856A-5
C 21	104.8	9.1	2839	3	US-08-468-859A-5
C 22	104.6	9.1	562	3	US-09-385-982-442
C 23	104.6	9.1	606	3	US-09-385-982-413
C 24	104.6	9.1	632	3	US-09-385-982-177
C 25	104.6	9.1	657	3	US-09-385-982-335
C 26	104.4	9.1	653	3	US-09-385-982-324
C 27	104.4	9.1	59065	4	US-09-813-817-3

C 28	104.4	9.1	59065	4	US-09-978-197-3	Sequence 3, Appli
C 29	104.2	9.1	72604	4	US-09-268-992-7	Sequence 7, Appli
C 30	104.2	9.1	72604	4	US-09-657-474-7	Sequence 7, Appli
C 31	104	9.1	3507	1	US-08-832-883-67	Sequence 67, Appli
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C 33	104	9.1	162450	4	US-09-345-882-1	Sequence 1, Appli
C 34	103.8	9.0	63588	4	US-09-873-404-3	Sequence 3, Appli
C 35	103	9.0	111282	4	US-09-754-250-3	Sequence 3, Appli
C 36	102.8	9.0	1002	4	US-09-641-638-578	Sequence 578, App
C 37	102.8	9.0	1184	4	US-09-489-847-76	Sequence 76, Appli
C 38	102.8	9.0	5789	3	US-09-242-348-3	Sequence 3, Appli
C 39	102.8	9.0	26664	4	US-09-564-805-28	Sequence 28, Appli
C 40	102.4	8.9	62804	4	US-09-800-960-3	Sequence 3, Appli
C 41	102.4	8.9	80246	3	US-09-078-294-4	Sequence 4, Appli
C 42	102.4	8.9	80595	3	US-09-078-294-3	Sequence 3, Appli
C 43	102.4	8.9	148567	4	US-09-801-876B-3	Sequence 3, Appli
C 44	102.2	8.9	3001	4	US-09-539-3330-187	Sequence 187, App
C 45	102.2	8.9	18073	3	US-09-078-294-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1

US-09-344-456-1

; Sequence 1, Application US/093444456A

; Patent No. 6326137

; GENERAL INFORMATION:

; APPLICANT: Hong, Zhi

; APPLICANT: Lai, Vicky C.H.

; TITLE OF INVENTION: HEPATITIS C VIRUS PROTEASE-DEPENDENT CHIMERIC

; TITLE OF INVENTION: PESTIVIRUS

; FILE REFERENCE: IN01038

; CURRENT APPLICATION NUMBER: US/09/344,456A

; CURRENT FILING DATE: 1999-06-25

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 12734

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Chimeric

; OTHER INFORMATION: Pestivirus

US-09-344-456-1

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Best Local Similarity 94.2%; Pred. No. 1.5e-68;
Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY	404	ATGTGTAGCGGATGCCAAGGAAAGCATAGGAGGTTTGAATGGACCGGAACTTAAGAGT	463
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QY	524	GAGTCAAGCATGTTGGGCTTCAAGATCACTACTTTGCACTGATGATGAAAGGTTAT	583
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QY	644	CCCTATCATCTCTATTGGTTCTCGGATTTCACAGCA	680
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RESULT 2

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; Sequence 1, Application US/09433262
; Patent No. 6168942
; GENERAL INFORMATION:
; APPLICANT: Cao, Xuemei
; APPLICANT: Sheppard, Mike
; TITLE OF INVENTION: ATTENUATED FORMS OF BOVINE VIRAL DIARRHEA VIRUS
; FILE REFERENCE: PC10435A
; CURRENT APPLICATION NUMBER: US/09/433,262
; CURRENT FILING DATE: 1999-11-04
; EARLIER APPLICATION NUMBER: 60/107,908
; EARLIER FILING DATE: 1998-11-10
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 14078
; TYPE: DNA
; ORGANISM: Bovine Viral Diarrhea Virus
US-09-433-262-1

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Qy      524 GAGTCAGCATGTTGGGCCCTCAAGATCACTACTTTTGCACTGATGGATGGAAGGTTGAT 583
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Qy      584 GACATCACAGATGGGCTGGATGCCAGCGTGTAGGTATCTCCCCAGATACCCACAGAGTC 643
Db      |||||
Db      4712 GATATCACAGATGGGCTGGATGCCAGCGTGTGGAAATCTCCCCAGATACCCACAGAGTC 4771
Qy      644 CCCTATCACATCTCATTTGGTTCTCGGATTCAGGCA 680
Db      |||||
Db      4772 CCTTGTACATCTCATTTGGTTTACGGATGCCCTTTCA 4808

RESULT 3
US-09-702-330-1
; Sequence 1, Application US/09702330
; Patent No. 6410032
; GENERAL INFORMATION:
; APPLICANT: Cao, Xuemei
; APPLICANT: Sheppard, Mike
; TITLE OF INVENTION: ATTENUATED FORMS OF BOVINE VIRAL DIARRHEA VIRUS
; FILE REFERENCE: PC10435A
; CURRENT APPLICATION NUMBER: US/09/702,330
; CURRENT FILING DATE: 2000-10-31
; PRIOR APPLICATION NUMBER: 09/433,262
; PRIOR FILING DATE: 1999-11-04
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 14078
; TYPE: DNA
; ORGANISM: Bovine Viral Diarrhea Virus
US-09-702-330-1

Query Match      21.9%; Score 251.4; DB 4; Length 14078;
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Qy      404 ATGTGTAGCCGATCCCAAGGAAAGCATAGGAGGTTTGAAATGGACCGGAAACCTTAAGAGT 463
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Db      4532 ATGTGCAGCCGATCCCGAGGAAAGCATAGGAGTTTGAAATGGACCGGAAACCTTAAGAGT 4591
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Db      |||||
Db      4592 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGCA 4651
Qy      524 GAGTCAGCATGTTGGGCCCTCAAGATCACTACTTTTGCACTGATGGATGGAAGGTTGAT 583
Db      |||||
Db      4652 GAGTCAGCATGTTGGGCCCTCAAAATCACCTACTTTTGGCTGATGGATGGAAGGTTGAT 4711
Qy      584 GACATCACAGATGGGCTGGATGCCAGCGTGTAGGTATCTCCCCAGATACCCACAGAGTC 643
Db      |||||
Db      4712 GATATCACAGATGGGCTGGATGCCAGCGTGTGGAAATCTCCCCAGATACCCACAGAGTC 4771
Qy      644 CCCTATCACATCTCATTTGGTTCTCGGATTCAGGCA 680
Db      |||||
Db      4772 CCTTGTACATCTCATTTGGTTTACGGATGCCCTTTCA 4808

RESULT 3
US-09-702-330-1
; Sequence 1, Application US/09702330
; Patent No. 6410032
; GENERAL INFORMATION:
; APPLICANT: Cao, Xuemei
; APPLICANT: Sheppard, Mike
; TITLE OF INVENTION: ATTENUATED FORMS OF BOVINE VIRAL DIARRHEA VIRUS
; FILE REFERENCE: PC10435A
; CURRENT APPLICATION NUMBER: US/09/702,330
; CURRENT FILING DATE: 2000-10-31
; PRIOR APPLICATION NUMBER: 09/433,262
; PRIOR FILING DATE: 1999-11-04
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 14078
; TYPE: DNA
; ORGANISM: Bovine Viral Diarrhea Virus
US-09-702-330-1

Query Match      21.9%; Score 251.4; DB 4; Length 14078;
Best Local Similarity 94.2%; Pred. No. 1.6e-66;
Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy      404 ATGTGTAGCCGATCCCAAGGAAAGCATAGGAGGTTTGAAATGGACCGGAAACCTTAAGAGT 463
Db      |||||
Db      4532 ATGTGCAGCCGATCCCGAGGAAAGCATAGGAGTTTGAAATGGACCGGAAACCTTAAGAGT 4591
Qy      464 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGCA 523
Db      |||||
Db      4592 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGCA 4651
Qy      524 GAGTCAGCATGTTGGGCCCTCAAGATCACTACTTTTGCACTGATGGATGGAAGGTTGAT 583
Db      |||||
Db      4652 GAGTCAGCATGTTGGGCCCTCAAAATCACCTACTTTTGGCTGATGGATGGAAGGTTGAT 4711
Qy      584 GACATCACAGATGGGCTGGATGCCAGCGTGTAGGTATCTCCCCAGATACCCACAGAGTC 643
Db      |||||
Db      4712 GATATCACAGATGGGCTGGATGCCAGCGTGTGGAAATCTCCCCAGATACCCACAGAGTC 4771
Qy      644 CCCTATCACATCTCATTTGGTTCTCGGATTCAGGCA 680
Db      |||||
Db      4772 CCTTGTACATCTCATTTGGTTTACGGATGCCCTTTCA 4808

RESULT 4
US-08-859-694-1
; Sequence 1, Application US/08859694A
; Patent No. 6001613
; GENERAL INFORMATION:
; APPLICANT: Donis, Ruben O.
; APPLICANT: Vassilev, Ventsislav B.
; TITLE OF INVENTION: A plasmid bearing a cDNA copy of the genome of bovine
; TITLE OF INVENTION: viral diarrhea virus, chimeric derivations thereof, and
; TITLE OF INVENTION: method of producing an infectious bovine viral diarrhea
; TITLE OF INVENTION: virus using said plasmid
; FILE REFERENCE: UNVNS1110
; CURRENT APPLICATION NUMBER: US/08/859,694A
; CURRENT FILING DATE: 1997-05-21
; EARLIER APPLICATION NUMBER: 60/018,246
; EARLIER FILING DATE: 1996-05-24
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 14578
; TYPE: DNA
; ORGANISM: bovine viral diarrhea virus
US-08-859-694-1

Query Match      21.9%; Score 251.4; DB 3; Length 14578;
Best Local Similarity 94.2%; Pred. No. 1.6e-66;
Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy      404 ATGTGTAGCCGATCCCAAGGAAAGCATAGGAGGTTTGAAATGGACCGGAAACCTTAAGAGT 463
Db      |||||
Db      5032 ATGTGCAGCCGATGCCAGGAAAGCATAGGAGTTTGAAATGGACCGGAAACCTTAAGAGT 5091
Qy      464 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGCA 523
Db      |||||
Db      5092 GCCAGATACCTGTGCTGAGTGTAAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGCA 5151
Qy      524 GAGTCAGCATGTTGGGCCCTCAAGATCACTACTTTTGCACTGATGGATGGAAGGTTGAT 583
Db      |||||
Db      5152 GAGTCAGCATGTTGGGCCCTCAAAATCACCTACTTTTGGCTGATGGATGGAAGGTTGAT 5211
Qy      584 GACATCACAGATGGGCTGGATGCCAGCGTGTAGGTATCTCCCCAGATACCCACAGAGTC 643
Db      |||||
Db      5212 GATATCACAGATGGGCTGGATGCCAGCGTGTGGAAATCTCCCCAGATACCCACAGAGTC 5271
Qy      644 CCCTATCACATCTCATTTGGTTCTCGGATTCAGGCA 680
Db      |||||
Db      5272 CCTTGTACATCTCATTTGGTTTACGGATGCCCTTTCA 5308

RESULT 5
US-09-819-993-3/c
; Sequence 3, Application US/09819993
; Patent No. 6436692
; GENERAL INFORMATION:
; APPLICANT: GONG, Fangcheng et al.
```

```
; TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
; FILE REFERENCE: CL001195
; CURRENT APPLICATION NUMBER: US/09/819,993
; CURRENT FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 28001
; TYPE: DNA
; ORGANISM: Human
; NAME/KEY: misc_feature
; LOCATION: (1)..(28001)
; OTHER INFORMATION: n = A,T,C or G
US-09-819-993-3

Query Match 10.2%; Score 116.8; DB 4; Length 28001;
Best Local Similarity 88.2%; Pred. No. 6.9e-26;
Matches 127; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1004 CTGAATCTTTTCTTTTATTTTGTAGATGGAGTCTTGTCTGTTCGCCAGCTGGAGTG 1063
DB 23843 CTTTTTTTTTTTTTTTTTTTGTAGATGAATCTTGTCTGTTCGCCAGCTGGAGTG 23784

QY 1064 CAGTGGTGTGATCTCAGCTTACTGCAACTCTGTCTCCGGGTTCAAGCAATTCCTCCCAT 1123
DB 23783 CAGTGGTGTGATCTCAGCTTACTGCAACTCTGACTCCCTGTTCAAGCAATTCCTCTGA 23724

QY 1124 CTCAGCCTCCTGAGTAGTGGGAT 1147
DB 23723 CTCAGCCTCCTGAGTAGTGGGAT 23700

RESULT 6
US-09-804-471A-3
; Sequence 3, Application US/09804471A
; Patent No. 6479269
; GENERAL INFORMATION:
; APPLICANT: WEBSTER, Marion et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001164
; CURRENT APPLICATION NUMBER: US/09/804,471A
; CURRENT FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 174493
; TYPE: DNA
; ORGANISM: Human
; NAME/KEY: misc_feature
; LOCATION: (1)...(174493)
; OTHER INFORMATION: n = A,T,C or G
US-09-804-471A-3

Query Match 9.8%; Score 112.4; DB 4; Length 174493;
Best Local Similarity 88.4%; Pred. No. 4.9e-24;
Matches 122; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 1009 TCTTTTCTTTTATTTTGTAGATGGAGTCTTGTCTGTTCGCCAGCTGGAGTGCAGTG 1068
DB 119174 TTTTTTTTTTTTTTTTTTTGTAGAGGAGTCTGCTGTTCGCCAGGCTGGAGTGCAGTG 119233

QY 1069 GTGTGATCTCAGCTTACTGCAACCTCTGTCTCCCGGTTCAAGCAATTCCTCCATCTCAG 1128
DB 119234 GTGTGATCTCAGCTCAGTCAACCTCTGCTCCCGGTTCAAGTATTCTCCTGCTCAG 119293

QY 1129 CCTCTGAGTAGCTGGGA 1146
|||||
```

```
Db 119294 CCTCCCGAGTAGCTGGGA 119311

RESULT 7
US-09-292-542A-1/c
; Sequence 1, Application US/09292542A
; Patent No. 6531279
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; APPLICANT: Bougueleret, Lydie
; TITLE OF INVENTION: Genomic Sequence Of The 5-Lipoxygenase-Activating Protein (FLAP)
; Patent No. 6531279
; TITLE OF INVENTION: Polymorphic Markers Thereof And Methods For Detection Of Asthma.
; FILE REFERENCE: GENSET.026A
; CURRENT FILING DATE: 1999-04-15
; CURRENT APPLICATION NUMBER: US/09/292,542A
; PRIOR APPLICATION NUMBER: US 60/081893
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: US 60/091314
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/123406
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patent.pm
; SEQ ID NO 1
; LENGTH: 43069
; TYPE: DNA
; ORGANISM: homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..7708
; OTHER INFORMATION: potential 5' regulatory region
; NAME/KEY: misc_feature
; LOCATION: 36604..43069
; OTHER INFORMATION: potential 3' regulatory region
; NAME/KEY: exon
; LOCATION: 7709..7852
; OTHER INFORMATION: exon1
; NAME/KEY: exon
; LOCATION: 16236..16335
; OTHER INFORMATION: exon2
; NAME/KEY: exon
; LOCATION: 24227..24297
; OTHER INFORMATION: exon3
; NAME/KEY: exon
; LOCATION: 28133..28214
; OTHER INFORMATION: exon4
; NAME/KEY: exon
; LOCATION: 36128..36605
; OTHER INFORMATION: exon5
; NAME/KEY: misc_feature
; LOCATION: 7783..7785
; OTHER INFORMATION: ATG
; NAME/KEY: misc_feature
; LOCATION: 36288..36290
; OTHER INFORMATION: stop : TAA
; NAME/KEY: polyA signal
; LOCATION: 36581..36586
; OTHER INFORMATION: AATAAA
; NAME/KEY: misc_feature
; LOCATION: 7008..8116
; OTHER INFORMATION: homology with sequence in ref genbank : M60470
; NAME/KEY: misc_feature
; LOCATION: 15995..16549
; OTHER INFORMATION: homology with sequence in ref genbank : M63259
; NAME/KEY: misc_feature
; LOCATION: 24059..24597
; OTHER INFORMATION: homology with sequence in ref genbank : M63260
; NAME/KEY: misc_feature
; LOCATION: 27873..28412
; OTHER INFORMATION: homology with sequence in ref genbank : M63261
; NAME/KEY: misc_feature
```

```
LOCATION: 35977..36926
OTHER INFORMATION: homology with sequence in ref genbank : M63262
NAME/KEY: misc feature
LOCATION: 7613
OTHER INFORMATION: diverging nucleotide deletion of a A in ref : M60470
NAME/KEY: misc feature
LOCATION: 16347
OTHER INFORMATION: diverging nucleotide G in ref : M63259
NAME/KEY: misc feature
LOCATION: 16348
OTHER INFORMATION: diverging nucleotide A in ref : M63259
NAME/KEY: misc feature
LOCATION: 24060
OTHER INFORMATION: diverging nucleotide deletion of a G in ref : M63260
NAME/KEY: misc feature
LOCATION: 24067
OTHER INFORMATION: diverging nucleotide deletion of a G in ref : M63260
NAME/KEY: misc feature
LOCATION: 27903
OTHER INFORMATION: diverging nucleotide deletion of a C in ref : M63261
NAME/KEY: misc feature
LOCATION: 28327
OTHER INFORMATION: diverging nucleotide deletion of a G in ref : M63261
NAME/KEY: misc feature
LOCATION: 3851..4189
OTHER INFORMATION: 10-517
NAME/KEY: misc feature
LOCATION: 4120..4390
OTHER INFORMATION: 10-518
NAME/KEY: misc feature
LOCATION: 4373..4792
OTHER INFORMATION: 10-253
NAME/KEY: misc feature
LOCATION: 4814..5043
OTHER INFORMATION: 10-499
NAME/KEY: misc feature
LOCATION: 4956..5422
OTHER INFORMATION: 10-500
NAME/KEY: misc feature
LOCATION: 5324..5996
OTHER INFORMATION: 10-522
NAME/KEY: misc feature
LOCATION: 6218..6672
OTHER INFORMATION: 10-503
NAME/KEY: misc feature
LOCATION: 6522..6790
OTHER INFORMATION: 10-504
NAME/KEY: misc feature
LOCATION: 7120..7574
OTHER INFORMATION: 10-204
NAME/KEY: misc feature
LOCATION: 7513..7933
OTHER INFORMATION: 10-32
NAME/KEY: misc feature
LOCATION: 16114..16533
OTHER INFORMATION: 10-33
NAME/KEY: misc feature
LOCATION: 24072..24425
OTHER INFORMATION: 10-34
NAME/KEY: misc feature
LOCATION: 27978..28401
OTHER INFORMATION: 10-35
NAME/KEY: misc feature
LOCATION: 36020..36465
OTHER INFORMATION: 10-36
NAME/KEY: misc feature
LOCATION: 36318..36669
OTHER INFORMATION: 10-498
NAME/KEY: misc feature
LOCATION: 38441..38840
OTHER INFORMATION: 12-629
NAME/KEY: misc feature
LOCATION: 42233..42749
```

```
OTHER INFORMATION: 12-628 complement
NAME/KEY: allele
LOCATION: 3950
OTHER INFORMATION: 10-517-100 : polymorphic base S
NAME/KEY: allele
LOCATION: 4243
OTHER INFORMATION: 10-518-125 : polymorphic base K
NAME/KEY: allele
LOCATION: 4312
OTHER INFORMATION: 10-518-194 : polymorphic base R
NAME/KEY: allele
LOCATION: 4490
OTHER INFORMATION: 10-253-118 : polymorphic base R
NAME/KEY: allele
LOCATION: 4670
OTHER INFORMATION: 10-253-298 : polymorphic base S
NAME/KEY: allele
LOCATION: 4687
OTHER INFORMATION: 10-253-315 : polymorphic base Y
NAME/KEY: allele
LOCATION: 4968
OTHER INFORMATION: 10-499-155 : polymorphic base R
NAME/KEY: allele
LOCATION: 5140
OTHER INFORMATION: 10-500-185 : polymorphic base Y
NAME/KEY: allele
LOCATION: 5213
OTHER INFORMATION: 10-500-258 : polymorphic base K
NAME/KEY: allele
LOCATION: 5364
OTHER INFORMATION: 10-500-410 : polymorphic base R
NAME/KEY: allele
LOCATION: 5594
OTHER INFORMATION: 10-522-71 : polymorphic base R
NAME/KEY: allele
LOCATION: 6370
OTHER INFORMATION: 10-503-159 : polymorphic base K
NAME/KEY: allele
LOCATION: 6693
OTHER INFORMATION: 10-504-172 : polymorphic base W
NAME/KEY: allele
LOCATION: 6763
OTHER INFORMATION: 10-504-243 : polymorphic base M
NAME/KEY: allele
LOCATION: 7445
OTHER INFORMATION: 10-204-326 : polymorphic base R
NAME/KEY: allele
LOCATION: 7870
OTHER INFORMATION: 10-32-357 : polymorphic base M
NAME/KEY: allele
LOCATION: 16288
OTHER INFORMATION: 10-33-175 : polymorphic base Y
NAME/KEY: allele
LOCATION: 16347
OTHER INFORMATION: 10-33-234 : polymorphic base M
NAME/KEY: allele
LOCATION: 16383
OTHER INFORMATION: 10-33-270 : polymorphic base R
NAME/KEY: allele
```

```
Query Match          9.6%; Score 110.4; DB 4; Length 43069;
Best Local Similarity 85.4%; Pred. No. 9.2e-24;
Matches 123; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1004 CTGAATCTTTTCTTTTATTTTTCAGATGGAGTCTCTCTGTGTCAGCTGGAGTG 1063
    |||||
DB 34796 CTTTTCCTTTCTTTTCTTTTTCAGACTGAGTCAAGCTCTATTGCCAGCTGGAGTG 34737
    |||||

QY 1064 CAGTGGTGTGATCTCAGCTTACTGCAACTCTGTCTCCCGGTTCAAGCAATTCTCCCAT 1123
    |||||
DB 34736 CAGTGGCAGATCTCAGATCACTGCAACTCTGTCTCCCGGTTCAAGCGATTCTCTCCTGC 34677
    |||||

QY 1124 CTCAGCCTCCTGAGTAGCTGGGAT 1147
```

—

```

NAME/KEY: misc binding
LOCATION: 458..477
OTHER INFORMATION: 10-500-258.misl, potential
NAME/KEY: misc binding
LOCATION: 479..498
OTHER INFORMATION: 10-500-258.mis2, potential complement
NAME/KEY: primer bind
LOCATION: 221..237
OTHER INFORMATION: upstream amplification primer
NAME/KEY: primer bind
LOCATION: 670..687
OTHER INFORMATION: downstream amplification primer, complement
NAME/KEY: misc binding
LOCATION: 466..490
OTHER INFORMATION: 10-500-258 potential probe
JS-09-641-638-6

Query Match          9.3%; Score 107; DB 4; Length 955;
Best Local Similarity 77.6%; Pred. No. 1.2e-23;
Matches 142; Conservative 0; Mismatches 40; Indels 1; Gaps 1;

QY      965 TGGAGTTTGATTTATCCCTCTCCCTCCCAACACCTAGGAAGTCTTTTCTCTTTTATT 1024
Ddb      |||||
QY      665 TGGAGCTAGAGAGCTTTCTCTCTCTCTCTCCGCCCTTCCTCTCTTTTTTTTTTT 606
Ddb      |||||
QY      1025 TTTTGAGATGAGTCTTCTCTCTGTGTGCCCA-GCTGGAGTGCAGTGGTGTGATCTCAGCTT 1083
Ddb      |||||
QY      605 TTTTGAGACGGAGTCTTCTCTCTGTGTGCCAGGCTGGAGTGCAGTGGCGGATCTCAGCTC 546
Ddb      |||||
QY      1084 ACTCGAAGCTCTGTCTCCCGGGTTCAAGCAATTCTCCCATCTCAGGCTCCTGAGTAGCTG 1143
Ddb      |||||
QY      545 ACTCGAAGCTCTGTCTCCCGGGTTCAAGCAATTCTCCCATCTCAGGCTCCTGAGTAGCTG 486
Ddb      |||||
QY      1144 GGA 1146
Ddb      |||||
QY      485 GGA 483

RESULT 12
US-09-641-638-7/c
; Sequence 7, Application US/09641638
; Patent No. 6432648
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Bouqueleret, Lydie
; APPLICANT: Chumakov, Ilva
; APPLICANT: Cohen, Annick
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
; FILE REFERENCE: GENSET.051CP1
; CURRENT APPLICATION NUMBER: US/09/641,638
; CURRENT FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent.pm
; SEQ ID NO 7
; LENGTH: 955
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 478
; OTHER INFORMATION: 10-500-410 : polymorphic base A or G
; NAME/KEY: misc binding
; LOCATION: 458..477
; OTHER INFORMATION: 10-500-410.misl, potential

```



```

; NAME/KEY: primer_bind
; LOCATION: 431..449
; OTHER INFORMATION: upstream amplification primer
; NAME/KEY: primer_bind
; LOCATION: 885..903
; OTHER INFORMATION: downstream amplification primer, complement
; NAME/KEY: misc_binding
; LOCATION: 489..513
; OTHER INFORMATION: 10-522-71 potential probe
US-09-641-638-650

Query Match          9.3%; Score 107; DB 4; Length 1000;
Best Local Similarity 77.6%; Pred: No. 1.2e-23;
Matches 142; Conservative 0; Mismatches 40; Indels 1; Gaps 1;

QY 965 TGCAGTTGATTTATCCCTCTCTCCGCCAACACCTAGGAACCTGAATCTTTTTCTTTTATT 1024
DB 307 TGCAGCTAGAGAGCTTCTCTCTCTCTCCGCCCTCTCTCTCTCTCTCTCTCTCTCTCT 248

QY 1025 TTTTCAGATCGAGCTTCTCTCTGTGTGCCCA-GCTGGAGTCGAGTGGTGTGATCTCAGCTT 1083
DB 247 TTTTCAGACGGAGTCTTGTCTCTGTGTGCCAGGCTGGAGTCGAGTCGCGCGATCTCAGCTC 188

QY 1084 ACTGCAACTCTGTCTCCCGGGTTCACAGCAATCTCCCATCTCAGCTCCCTGAGTAGCTG 1143
DB 187 ACTGCAAGCTCTGCTCCCGGGTTCACGCCATTCTCTCTCAGCTCTCTCAGTAGCTG 128

QY 1144 GGA 1146
DB 127 GGA 125

RESULT 14
US-09-489-847-111/c
; Sequence 111, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 111
; LENGTH: 2871
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1234)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1259)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1283)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:

```

```

; NAME/KEY: misc_binding
; LOCATION: 479_498
; OTHER INFORMATION: 10-500-410.mis2, potential complement
; NAME/KEY: primer_bind
; LOCATION: 70..86
; OTHER INFORMATION: upstream amplification primer
; NAME/KEY: primer_bind
; LOCATION: 519..536
; OTHER INFORMATION: downstream amplification primer, complement
; NAME/KEY: misc_binding
; LOCATION: 466..490
; OTHER INFORMATION: 10-500-410 potential probe
US-09-641-638-7

Query Match          9.3%; Score 107; DB 4; Length 955;
Best Local Similarity 77.6%; Pred. No. 1.2e-23;
Matches 142; Conservative 0; Mismatches 40; Indels 1; Gaps 1;

QY 965 TGGAGTTTCATTATCCCTCTCCCTCCCAACACCTAGGAACCTGAATCTTTTCTCTTTTAT 1024
Db 514 TGAGCTAGAGAGCTTCTCTCTCTCTCTCCGGCYCTTCCTCTCTTTTTTTTTTT 455

QY 1025 TTTTGAGATGGAGTCTTGCTCTGTTGCCA-GCTGGAGTGCAGTGGTGTGATCTCAGCTT 1083
Db 454 TTTTGAGACGGAGCTTGCTCTCTGTTGCCAGGCTGGAGTGCAGTGGCGGATCTCAGCTC 395

QY 1084 ACTGCAACTCTCTCTCTCCGGGTTCAGCAATCTCCCATCTCAGCCTCCTGAGTAGCTG 1143
Db 394 ACTGCAAGCTCTGCTCTCCCGGGTTCAGGCAATCTCTCTGCTCAGCCTCCTGAGTAGCTG 335

QY 1144 GGA 1146
Db 334 GGA 332

RESULT 13
US-09-641-638-650/c
; Sequence 650, Application US/09641638
; Patent No. 6432648
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Chumakov, Ilya
; APPLICANT: Cohen, Anick
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
; FILE REFERENCE: GENSET.051CPI
; CURRENT APPLICATION NUMBER: US/09/641,638
; CURRENT FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent.pm
; SEQ ID NO 650
; LENGTH: 1000
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 501
; OTHER INFORMATION: 10-522-71 : polymorphic base A or G
; NAME/KEY: misc_binding
; LOCATION: 481..500
; OTHER INFORMATION: 10-522-71.mis1, potential
; NAME/KEY: misc_binding
; LOCATION: 502..521
; OTHER INFORMATION: 10-522-71.mis2, potential complement

```

```
; NAME/KEY: SITE
; LOCATION: (1284)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1287)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1378)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1912)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1913)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1935)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1947)
; OTHER INFORMATION: n equals a.t.g, or c
; US-09-489-847-111

Query Match          9.2%; Score 106; DB 4; Length 2871;
Best Local Similarity 85.5%; Pred. No. 4.6e-23;
Matches 118; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1009 TCTTTTCTTTTATTTTGGAGATGGAGTCTGTCTGTCCTCCCGGTTCAAGCAATTCTCCCATCTCAG 1068
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1069 GTGTGATCTCAGCTTACTGCAACCTCTGTCTCCCGGTTTCAAGCAATTCTCCCATCTCAG 1128
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1129 CCTCCTGAGTAGCTGGGA 1146
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2753 CCTCCTGAGTAGCTGGGA 2736
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Search completed: December 1, 2003, 09:38:32
Job time : 95 secs
```

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; NAME/KEY: SITE
; LOCATION: (1284)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1287)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1378)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1912)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1913)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1935)
; OTHER INFORMATION: n equals a.t.g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (1947)
; OTHER INFORMATION: n equals a.t.g, or c
; US-09-489-847-111

Query Match          9.2%; Score 106; DB 4; Length 2871;
Best Local Similarity 85.5%; Pred. No. 4.6e-23;
Matches 118; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1009 TCTTTTCTTTTATTTTGGAGATGGAGTCTGTCTGTCCTCCCGGTTCAAGCAATTCTCCCATCTCAG 1068
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1069 GTGTGATCTCAGCTTACTGCAACCTCTGTCTCCCGGTTTCAAGCAATTCTCCCATCTCAG 1128
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1129 CCTCCTGAGTAGCTGGGA 1146
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2748 CCTCCTGAGTAGCTGGGA 2731
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 15
US-09-489-847-22/c
; Sequence 22, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031PI
; CURRENT APPLICATION NUMBER: US/09/489,847
; CURRENT FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 2876
; TYPE: DNA
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; ORGANISM: Homo sapiens
US-09-489-847-22

Query Match          9.2%; Score 106; DB 4; Length 2876;
Best Local Similarity 85.5%; Pred. No. 4.6e-23;
Matches 118; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 1009 TCTTTTCTTTTATTTTGGAGATGGAGTCTGTCTGTCCTCCCGGTTTCAAGCAATTCTCCCATCTCAG 1068
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QY 1069 GTGTGATCTCAGCTTACTGCAACCTCTGTCTCCCGGTTTCAAGCAATTCTCCCATCTCAG 1128
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1129 CCTCCTGAGTAGCTGGGA 1146
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QY 2753 CCTCCTGAGTAGCTGGGA 2736
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Search completed: December 1, 2003, 09:38:32
Job time : 95 secs
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GenCore version 5.1.6 Copyright (c) 1993 - 2003 CompuGen Ltd.									
OM nucleic - nucleic search, using sw model									
Run on: December 1, 2003, 07:30:33 ; Search time 1865 Seconds (without alignments) 2026.279 Million cell updates/sec									
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Perfect score: 1147									
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Gapop 10.0 , Gapext 1.0									
Searched: 2190065 seqs, 1647345023 residues									
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Minimum DB seq length: 0									
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3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:									
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16: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:									
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
C 1	1146	99.9	3090	12	US-09-814-353-19835
C 2	1125	98.1	2945	14	US-10-198-846-12415
C 3	743	64.8	754	14	US-10-096-534-43
C 4	743	64.8	754	14	US-10-097-340-182
C 5	453	39.5	7453	11	US-09-764-891-8949
C 6	293.2	25.6	443	12	US-09-814-353-14171
C 7	257	22.4	259	12	US-09-814-353-1424
C 8	257	22.4	259	12	US-09-814-353-7786
C 9	251.4	21.9	12572	14	US-10-228-406A-10
C 10	251.4	21.9	14078	12	US-10-134-288-1
C 11	251.4	21.9	16713	14	US-10-228-406A-9
C 12	234.6	20.5	339	10	US-09-867-701-8500
C 13	137.6	12.0	510	12	US-09-814-353-4106
C 14	137.6	12.0	510	12	US-09-814-353-10412
C 15	137	11.9	598	12	US-09-814-353-16796
C 16	137	11.9	621	14	US-10-198-846-9074

ALIGNMENTS

RESULT 1

US-09-814-353-19835/c
; Sequence 19835, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 19835
; LENGTH: 3090
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 488, 525
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-19835
Query Match 99.9%; Score 1146; DB 12; Length 3090;

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Sequence 1487, Ap
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Sequence 1738, Ap
Sequence 158, App
Sequence 1134, Ap
Sequence 2645, Ap
Sequence 232, App
Sequence 90, Appl
Sequence 6480, Ap
Sequence 10135, A
Sequence 10179, A
Sequence 1134, Ap
Sequence 90, Appl
Sequence 1134, Ap
Sequence 3, Appli
Sequence 2258, Ap
Sequence 2258, Ap
Sequence 10, Appl
Sequence 135985,
Sequence 135995,
Sequence 252944,
Sequence 252944,

Best Local Similarity 99.9%; Pred. No. 0;									
Matches 1146; Conservative 0; Mismatches 1; Indels 0; Gaps 0;									
Qy	1	GCCTTGGGTCAAGCAGAGATATTAATAGCAGGGGAATGCACCTGTAGCTAGTGGCGCTA	60						
Db	1667	GCCTTGGGTCAAGCAGAGATATTAATAGCAGGGGAATGCACCTGTAGCTAGTGGCGCTA	1608						
Qy	61	CTGCCAGCCTCAAGAGAGAGTGGCTCGACTCTTGACCATGGCTGGGGTTCTTGAGGATGA	120						
Db	1607	CTGCCAGCCTCAAGAGAGAGTGGCTCGACTCTTGACCATGGCTGGGGTTCTTGAGGATGA	1548						
Qy	121	GCTAAACCTTTCCATGTACTGGGGTTGAGGCCACAGCATCAGATGTTGAACTGAAGAA	180						
Db	1547	GCTAAACCTTTCCATGTACTGGGGTTGAGGCCACAGCATCAGATGTTGAACTGAAGAA	1488						
Qy	181	GGCCTATAGACAGCTGGGAGTATGTTTCCATCCTGACAAAATCATCATCCCGGGCTGA	240						
Db	1487	GGCCTATAGACAGCTGGGAGTATGTTTCCATCCTGACAAAATCATCATCCCGGGCTGA	1428						
Qy	241	GGAGGCTTCAAGGTTTTTCGAGCAGCTTGGGACATTTGTCAGCAATGCTGAAAACGGAAA	300						
Db	1427	GGAGGCTTCAAGGTTTTTCGAGCAGCTTGGGACATTTGTCAGCAATGCTGAAAACGGAAA	1368						
Qy	301	GGAGTATGAGATGAACGAAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAGTTTCT	360						
Db	1367	GGAGTATGAGATGAACGAAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAGTTTCT	1308						
Qy	361	GTCCAAAGCTGCAAGATGACCTCAAGAGGCAATGATATGATGTGTAGCCGATGCCA	420						
Db	1307	GTCCAAAGCTGCAAGATGACCTCAAGAGGCAATGATATGATGTGTAGCCGATGCCA	1248						
Qy	421	AGGAAAGCATAGAGGTTTTGAAATGACCGGAACTTAAGAGTGCCAGATATCTGTGCTGA	480						
Db	1247	AGGAAAGCATAGAGGTTTTGAAATGACCGGAACTTAAGAGTGCCAGATATCTGTGCTGA	1188						
Qy	481	GTGTAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGAGAGTCAAGCATGTTGGG	540						
Db	1187	GTGTAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGAGAGTCAAGCATGTTGGG	1128						
Qy	541	CCTCAAGATCACTTACTTTTGCACTGATGGATGGAAAGGTGTATGACATCACAGAGTGGGC	600						
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Qy	721	TGATCTTCAAGATTTCTTGAGTCGGATCTTTTCAAGTACCCCAAGGCGAGATGCCCAATGG	780						
Db	947	TGATCTTCAAGATTTCTTGAGTCGGATCTTTTCAAGTACCCCAAGGCGAGATGCCCAATGG	888						
Qy	781	GAACTTTCTTGAGCTCTCAGCTGCCCTCGAGCGGCTGAGCGCTCTTAAGCCCAACAG	840						
Db	887	GAACTTTCTTGAGCTCTCAGCTGCCCTCGAGCGGCTGAGCGCTCTTAAGCCCAACAG	828						
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Qy	901	ACGTTGATGCCCTTCTTCTTCTCAAAATCAATGTCAAGGAGTCAAAAGGGCTGTAGCAC	960						
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Qy	961	AGGATGGAGTTGATTTATCCCTCTCCCAACACCTAGGAAGTCAAAAGGGCTGTAGCAC	1020						
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Qy	1021	TATTTTTTCAGATGAGAGTCTTGCTGTGTCGCCAGCTGGAGTGCACTGGTGTAGTCTAG	1080						

Db	647	TATTTTTTCAGATGAGAGTCTTGCTGTGTCGCCAGCTGGAGTGCAGTGGTGTATCTCAG	588						
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Qy	1141	CTGGGAT 1147							
Db	527	CTNGGAT 521							
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US-10-198-846-12415/c									
; Sequence 12415, Application US/10198846									
; Publication No. US2003009974A1									
; GENERAL INFORMATION:									
; APPLICANT: Lillie, James									
; APPLICANT: Xu, Yongyao									
; APPLICANT: Steinmann, Kathleen									
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS									
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND									
; TITLE OF INVENTION: THERAPY OF BREAST CANCER									
; FILE REFERENCE: MRI-049									
; CURRENT APPLICATION NUMBER: US/10198.846									
; CURRENT FILING DATE: 2002-07-18									
; PRIOR APPLICATION NUMBER: 60/306,220									
; PRIOR FILING DATE: 2001-07-18									
; NUMBER OF SEQ ID NOS: 14084									
; SOFTWARE: FastSeq for Windows Version 4.0									
; SEQ ID NO 12415									
; LENGTH: 2945									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
US-10-198-846-12415									
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Best Local Similarity 99.8%; Pred. No. 0;									
Matches 1147; Conservative 0; Mismatches 0; Indels 2; Gaps 2;									
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Db	1553	GCTAAACCTTTTCCATGTACTGGGGTTGAGGCCACAGCATCAGATGTTGAACTGAAGAA	1494						
Qy	181	GGCCTATAGACAGCTGGCAGTATGTTTCTGACAAAAATCATCATCCCGGGCTGA	240						
Db	1493	GGCCTATAGACAGCTGGCAGTATGTTTCTGACAAAAATCATCATCCCGGGCTGA	1434						
Qy	241	GGAGCCTTCAAGGTTTTGCGAGAGCTTTGGAGCAATTTGTACCAATGCTGAAAACGGAAA	300						
Db	1433	GGAGCCTTCAAGGTTTTTCCGAGCAGCTTGGGACATTTGTACCAATGCTGAAAACGGAAA	1374						
Qy	301	GGAGTATGAGATGAACGAAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAGTTTCT	360						
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Qy	361	GTCCAAAGCTGCAAGATGACCTCAAGAGGCAATGAATATCTATGATGTAGCCGATGCCA	420						
Db	1313	GTCCAAAGCTGCAAGATGACCTCAAGAGGCAATGAATATCTATGATGTAGCCGATGCCA	1254						
Qy	421	AGGAAAGCATAGGAGTTTGAATGGACGGGAACTTAAGAGTGCAGATCTGTGCTGA	480						
Db	1253	AGGAAAGCATAGGAGTTTGAATGGACGGGAACTTAAGAGTGCAGATCTGTGCTGA	1194						
Qy	481	GTGTAATAGGCTGCATCTCTGCTGAGGAAGGAGACTTTTGGGCGAGAGTCAAGCATGTTGGG	540						


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; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHAO
; APPLICANT: Karen GHAOT
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; TITLE OF INVENTION: Assessment, Prevention, and Therapy of Ovarian Cancer
; FILE REFERENCE: MRI-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; PRIOR FILING DATE: 2001-09-19
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 182
; LENGTH: 754
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-097-340-182

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Db	61	GTCCAAAGCTGCAAGATGACCTCAAGGAGGCAATGNAATACTATGATGTTAGCCGATGCCA	120	
Qy	421	AGGAAAGCATAGGAGGTTTGAATGGACCGGAACTTAAGAGTGGCCAGATACTGTGCTGA	480	
Db	121	AGGAAAGCATAGGAGGTTTGAATGGACCGGAACTTAAGAGTGGCCAGATACTGTGCTGA	180	
Qy	481	GTGTAATAGGCTGTCATCCTGCTGAGGAAGGAGACTTTTGGGCAGAGTCAAGCATGTTGGG	540	
Db	181	GTGTAATAGGCTGTCATCCTGCTGAGGAAGGAGACTTTTGGGCAGAGTCAAGCATGTTGGG	240	
Qy	541	CCTCAAGATCACCCTACTTTGCACTGATCGATGGAAAGGTGTATGACATCACAGATGGGC	600	
Db	241	CCTCAAGATCACCCTACTTTGCACTGATCGATGGAAAGGTGTATGACATCACAGATGGGC	300	
Qy	601	TGGATGCCAGCGTGTAGTATCTCCCCAGATACCCACAGAGTCCCCTATCACATCTCAIT	660	
Db	301	TGGATGCCAGCGTGTAGTATCTCCCCAGATACCCACAGAGTCCCCTATCACATCTCAIT	360	
Qy	661	TGGTTCTCGGATTCAGGCAACAGAGGGGGCAGAGGCCACCCAGATGCCCTCTCTGC	720	
Db	361	TGGTTCTCGGATTCAGGCAACAGAGGGGGCAGAGGCCACCCAGATGCCCTCTCTGC	420	
Qy	721	TGATCTTCAGGATTTCTTTGAGTCGATCTTTTCAAGTACCCCCAGGGCAGATGCCCAATGG	780	
Db	421	TGATCTTCAGGATTTCTTTGAGTCGATCTTTTCAAGTACCCCCAGGGCAGATGCCCAATGG	479	
Qy	781	GAACTTCTTGAGCTCTCTAGCCTTGCCCTTGAGCCGCTGAGCGCTCTAAGCCCAACAG	840	
Db	480	GAACTTCTTGAGCTCTCTAGCCTTGCCCTTGAGCCGCTCTAAGCCCAACAG	539	
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Db	540	CACAGTACCCAGGAGAGGCCAAACCTTAAGCGGGGAAGAAAGTGAAGAGGCCCTTCCA	599	

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901  AGCTTGATGCCCTTCTCTTTTCTCAAAATGTCAGGGAGTCAAAAGGGCTGTAGCAC  960
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961  AGAGTGGAGTTTGATTATCCCTCTCTCCCCAACACCTAGGAACTGAATCTTTTTCTTTT  1020
660  AGGATGGAGTTTGATTATCCCTCTCTCCCCAACACCTAGGAACTGAATCTTTTTCTTTT  719
1021  TATTTTTGAGATGGAGTCTTCTCTGTGTGCCCG  1055
720  TATTTTTGAGATGGAGTCTTCTCTGTGTGCCCG  754

RESULT 5
US-09-764-891-8949
; Sequence 8949, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8949
; LENGTH: 7453
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (350)
; OTHER INFORMATION: n equals a.t.g, or c
US-09-764-891-8949

Query Match          39.5%; Score 453; DB 11; Length 7453;
Best Local Similarity 100.0%; Pred.No. 6e-137;
Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0

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Qy	695	AGAGCCACCCAGATGCCCTCTCTGTCATCTTCAGGATTTCTTGAGTCGGATCTTTCAA	754
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Qy	755	GTACCCCGAGGGCAGATGCCCAATGGAACTTCTTTGCAGCTCCTCAGCCTGCCCTGGA	814
Db	3375	GTACCCCGAGGGCAGATGCCCAATGGAACTTCTTTGCAGCTCCTCAGCCTGCCCTGGA	3434
Qy	815	GCOCCTGCAGCCCTCTAAGCCCAAACAGCACAGTACCCAAAGGAGAACCCCTAAGCGG	874
Db	3435	GCOCCTGCAGCCCTCTAAGCCCAAACAGCACAGTACCCAAAGGAGAACCCCTAAGCGG	3494
Qy	875	CGGAAGAAAGTGAGGAGGGCCCTTCCAACTGTGATGCCCTTCTCTTTCCCTCAAAATG	934
Db	3495	CGGAAGAAAGTGAGGAGGGCCCTTCCAACTGTGATGCCCTTCTCTTTCCCTCAAAATG	3554
Qy	935	TCAGGAGTCAAAAGGGCTCTAGCACAGGATGGAGTTGATTTATCCCTCTCCGCCCAAC	994
Db	3555	TCAGGAGTCAAAAGGGCTCTAGCACAGGATGGAGTTGATTTATCCCTCTCCGCCCAAC	3614
Qy	995	ACCTAGAACTGAATCTTTTCTTTTATTTTGTAGATGGAGTCGTGCTGTGCCCCA	1054
Db	3615	ACCTAGAACTGAATCTTTTCTTTTATTTTGTAGATGGAGTCGTGCTGTGCCCCA	3674
Qy	1055	GCTGGAGTGCAGTGGTGTGATCTCAGCTTACTGCAACCTCTGTCTCCGGGTTCAAGCAA	1114
Db	3675	GCTGGAGTGCAGTGGTGTGATCTCAGCTTACTGCAACCTCTGTCTCCGGGTTCAAGCAA	3734
Qy	1115	TTCTCCCATCTCAGCCTCCTGAGTAGCTGGAT	1174
Db	3735	TTCTCCCATCTCAGCCTCCTGAGTAGCTGGAT	3794

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; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1424
; LENGTH: 259
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-1424

Query Match 22.4%; Score 257; DB 12; Length 259;
Best Local Similarity 100.0%; Pred. No. 1.7e-73;
Matches 257; Conservative 0; Mismatches 0; Indels 0

QY 184 CTATAGACAGCTGCGAGTGATGGTTTCATCCTGCACAAAAATCATCATCCTCCCGG
DB 259 CTATAGACAGCTGCGAGTGATGGTTTCATCCTGCACAAAAATCATCATCCTCCCGG
QY 244 GGCCTTCAAGGTTTTGGCGAGCAGCTTGGGACATTGTCAGCAATGCTGAAAAAG
DB 199 GGCCTTCAAGGTTTTGGCGAGCAGCTTGGGACATTGTCAGCAATGCTGAAAAAG
QY 304 GTATGAGATGAAACGAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAG
DB 139 GTATGAGATGAAACGAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAG
QY 364 CAGCTCCAGATGACCTCAGGAGGCAATGAACTACTATGATGTGTAGCCGGA
DB 79 CAGCTCCAGATGACCTCAGGAGGCAATGAACTACTATGATGTGTAGCCGGA
QY 424 AAAGCATAGGAGGTTTG 440
DB 19 AAAGCATAGGAGGTTTG 3

RESULT 8
US-09-814-353-7786/c
; Sequence 7786, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940

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RESULT 6
US-09-814-353-14171/c
; Sequence 14171, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14171
; LENGTH: 443
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-814-353-14171

Query Match      25.6%; Score 293.2; DB 12; Length 443;
Best Local Similarity 98.7%; Pred. No. 3.2e-85;
Matches 306; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 133 CCATGTTACTGGGGTTGAGGCCACAGCATCAGA-TGTTGAACTGAAGAAGCCTATAGAC 191
Db 426 CAAGGTACTGGGGTTAAGGCCACAGCATCAGATTGTTGAACTGAAGAAGCCTATAGAC 367

Qy 192 AGCTGGCAGTGAATGTTTCATCTGACAAAAATCATCATCCCGGGCTGAGGAGGCCTTCA 251
Db 366 AGCTGGCAGTGAATGTTTCATCTGACAAAAATCATCATCCCGGGCTGAGGAGGCCTTCA 307

Qy 252 AGGTTTTCGGAGCAGCTTGGGACATGTCAGCAATGCTGAAAAAGCGAAAGGAGTATGAGA 311
Db 306 AGGTTTTCGGAGCAGCTTGGGACATGTCAGCAATGCTGAAAAAGCGAAAGGAGTATGAGA 247

Qy 312 TGAACGAAATGGCAGAGAAATGAGCTGAGCCGGTCAAGTAAATGAGTTTCTGTCCAAAGCTGC 371
Db 246 TGAACGAAATGGCAGAGAAATGAGCTGAGCCGGTCAAGTAAATGAGTTTCTGTCCAAAGCTGC 187

Qy 372 AAGATGACCTCAAGGAGGCAATGAATATCATGTGTAGCCGATGCCAAGGAAAGCATATA 431
Db 186 AAGATGACCTCAAGGAGGCAATGAATATCATGTGTAGCCGATGCCAAGGAAAGCATATA 127

Qy 432 GGAGGTTTGA 441
Db 126 GGAGGTTTGA 117

RESULT 7
US-09-814-353-1424/c
; Sequence 1424, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR

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; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7786
; LENGTH: 259
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1, 2
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-7786

Query Match 22.4%; Score 257; DB 12; Length 259;
Best Local Similarity 100.0%; Pred. No. 1.7e-73;
Matches 257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 184 CTATAGACAGCTGGCAGTGATGTTTCATCTGACAAAAATCATCTCCCGGGCTGAGGA 243
DB 259 CTATAGACAGCTGGCAGTGATGTTTCATCTGACAAAAATCATCTCCCGGGCTGAGGA 200
QY 244 GGCCTTCAAGGTTTTGCGAGCAGCTTGGGACATTGTGACAAATGCTGAAAGCGAAAGGA 303
DB 199 GGCCTTCAAGGTTTTGCGAGCAGCTTGGGACATTGTGACAAATGCTGAAAGCGAAAGGA 140
QY 304 GTATGAGATGAAACGAAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAGTTTCTGTC 363
DB 139 GTATGAGATGAAACGAAATGGCAGAGAAATGAGCTGAGCCGGTCAGTAAATGAGTTTCTGTC 80
QY 364 CAAGCTGCAAGATGACCTCAAGAGGCAATGAATACTATGATGTAGCCGATGCCAAGG 423
DB 79 CAAGCTGCAAGATGACCTCAAGAGGCAATGAATACTATGATGTAGCCGATGCCAAGG 20
QY 424 AAAGCATAGGAGGTTTG 440
DB 19 AAAGCATAGGAGGTTTG 3

RESULT 9
US-10-228-406A-10
; Sequence 10, Application US/10228406A
; Publication No. US20030104612A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Xuemei
; APPLICANT: Zybarch, Gabriele
; TITLE OF INVENTION: GENERATION OF TYPE I/TYPE II HYBRID FORM OF BOVINE
; TITLE OF INVENTION: VIRAL DIARRHEA VIRUS FOR USE AS VACCINE
; FILE REFERENCE: PC1051A
; CURRENT APPLICATION NUMBER: US/10/228,406A
; CURRENT FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 12572
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Hybrid BVD virus NADL890
US-10-228-406A-10

Query Match 21.9%; Score 251.4; DB 14; Length 12572;
Best Local Similarity 72.2%; Pred. No. 9.2e-71;
Matches 200; Conservative 61; Mismatches 16; Indels 0; Gaps 0;

QY 404 ATGTGTAGCCGATCCCAAGGAAACATAGGAGTTTGAATGGACCGGGAACCTTAAGAGT 463
DB 4988 AUGUGCAGCCGAUCGACGGGAAACAAAGAGGAGGUUUGAAAUUGGACCGGGAACCUAAGAGU 5047

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; TITLE OF INVENTION: GENERATION OF TYPE I/TYPE II HYBRID FORM OF BOVINE
; TITLE OF INVENTION: VIRAL DIARRHEA VIRUS FOR USE AS VACCINE
; FILE REFERENCE: PC11051A
; CURRENT APPLICATION NUMBER: US/10/228,406A
; CURRENT FILING DATE: 2002-08-27
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 9
; LENGTH: 16713
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: pNADL890 vector
US-10-228-406A-9

Query Match 21.9%; Score 251.4; DB 14; Length 16713;
Best Local Similarity 94.2%; Pred. No. 1.1e-70;
Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 404 ATGTGTAGCCGATGCCAAGGAAGCATAGGAGGTTTCAAAATGGACCGGAACCTTAAGAGT 463
DB 4998 ATGTGACGCGATGCCAAGGAAGCATAGGAGGTTTCAAAATGGACCGGAACCTTAAGAGT 5047
QY 464 GCCAGATACCTGTGCTGAGTGTGTAATAGGCTGCATCTCTGAGGAAGGAGACTTTTGGGCA 523
DB 5048 GCCAGATACCTGTGCTGAGTGTGTAATAGGCTGCATCTCTGAGGAAGGAGACTTTTGGGCA 5107
QY 524 GAGTCAAGCATGTTGGGCTCAAGATCACCTACTTTGCACTGATGGATGGAAGGTGTAT 583
DB 5108 GAGTCAAGCATGTTGGGCTCAAGATCACCTACTTTGCACTGATGGATGGAAGGTGTAT 5167
QY 584 GACATCACAGAGTGGGCTGGATGCCAGGCTAGGTATCTCCAGATACCCACAGAGTC 643
DB 5168 GATATCACAGAGTGGGCTGGATGCCAGGCTAGGTATCTCCAGATACCCACAGAGTC 5227
QY 644 CCCTATCACATCTCATTTGGTTCCTCGGATTCAGGCA 680
DB 5228 CCTGTACATCTCATTTGGTTCCTCGGATTCAGGCA 5264

RESULT 12
US-09-867-701-8500
; Sequence 8500, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8500
; LENGTH: 339
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-8500

Query Match 20.5%; Score 234.6; DB 10; Length 339;
Best Local Similarity 98.0%; Pred. No. 4.4e-66;
Matches 248; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY 896 TTCCAAAGTGTGATGCCCTCTCTTCCCTCAATCAATGTCAGGGAGTCAAAAGGCTGT 955
DB 23 TTTCACGTTGATGCCCTCTCTTCCCTCAATCAATGTCAGGGAGTCAAAAGGCTGT 82
QY 956 AGCACAGGATGGATTTGATTTATCCCTCTCCCCCAACACCTAGGAAGTGAATCTTTT 1015
DB 83 AGCACAGGATGGATTTGATTTATCCCTCTCCCCCAACACCTAGGAAGTGAATCTTTT 142

QY 1016 CTTTATA-TTTTGTGAGATGGAGTCTTGTCTGTGTTGCCAGCTGGAGTGCAGTGGTGTGA 1074
DB 143 CTTTATA-TTTTGTGAGATGGAGTCTTGTCTGTGTTGCCAGCTGGAGTGAAGTGGTGTGA 202
QY 1075 TCTCAGCTTACTGCAACCTCTCTCTCCCGGTTTCAAGCAATTTCTCCATCTCAGCCTCT 1134
DB 203 TCTAAGCTTACTGCAACCTCTCTCTCCAGGTTTCAAGCAATTTCTCCATCTCAGCCTCT 262
QY 1135 GAGTAGCTGGAT 1147
DB 263 GAGTAGCTGGAT 275

RESULT 13
US-09-814-353-4106/c
; Sequence 4106, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4106
; LENGTH: 510
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 32
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-4106

Query Match 12.0%; Score 137.6; DB 12; Length 510;
Best Local Similarity 96.6%; Pred. No. 3.3e-34;
Matches 140; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCCTTGGTCAAGCAGATATTAATAGCCAGGGAATGCACCTGTAGCTAGTGGCGCTA 60
DB 163 GCCTTGGTCAAGCAGATATTAATAGCCAGGGAATGCACCTGTAGCTAGTGGCGCTA 104
QY 61 CTGCCAGCTGAAGAGGAGTGGCTCGACTCTTGACCATGGCTGGGGTTCCTGAGGATGA 120
DB 103 CTGCCAGCTGGAGAGGAGTGGCTCGACTCTTGACCATGGCTGGGGTTCCTGAGGATGA 44
QY 121 GCTAAACCTTTTCCATGACTGGGG 145
DB 43 GCTAAACCTTTTCCATGACTGGGG 19

RESULT 14
US-09-814-353-10412/c
; Sequence 10412, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:

```
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10412
; LENGTH: 510
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 32
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-10412

Query Match      12.0%; Score 137.6; DB 12; Length 510;
Best Local Similarity 96.6%; Pred. No. 3.3e-34;
Matches 140; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCCTTGGGTCAAGCAGAGATATTAAAGCAGGGGAATGCACCTGTAGCTAGTGGCGCTA 60
Db 163 GCCTTGGGTCAAGCAGAGATATTAAAGCAGGGGAATGCACCTGTAGCTAGTGGCGCTA 104

QY 61 CTGCCAGCCTGAAGAGGAGTGGCTCGACTTTGACCATGGCTGGGGTTCTCTGAGGATGA 120
Db 103 CTGCCAGCCTGGAGAGGAGTGGCTCGACTTTGACCATGGCTGGGGTTCTCTGAGGATGA 144

QY 121 GCTAAACCCCTTCCATGTACTGGGG 145
Db 43 GCTAAACCCCTTCCATGTACTGGG 19

RESULT 15
US-09-814-353-16796/c
; Sequence 16796, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
```

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; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16796
; LENGTH: 598
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-814-353-16796

Query Match      11.9%; Score 137; DB 12; Length 598;
Best Local Similarity 96.6%; Pred. No. 5.7e-34;
Matches 140; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 GCCTTGGGTCAAGCAGAGATATTAAAGCAGGGGAATGCACCTGTAGCTAGTGGCGCTA 60
Db 234 GCCTTGGGTCAAGCAGAGATATTAAAGCAGGGGAATGCACCTGTAGCTAGTGGCGCTA 175

QY 61 CTGCCAGCCTGAAGAGGAGTGGCTCGACTTTGACCATGGCTGGGGTTCTCTGAGGATGA 120
Db 174 CTGCCAGCCTGGAGAGGAGTGGCTCGACTTTGACCATGGCTGGGGTTCTCTGAGGATGA 115

QY 121 GCTAAACCCCTTCCATGTACTGGGG 145
Db 114 GCTAAACCCCTTACCATGTACTCGG 90

Search completed: December 1, 2003, 10:09:53
Job time : 1870 secs
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